XR-787R

SERVICE MANUAL

US Model
Canadian Model
AEP Model
E Model

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SPECIFICATIONS

Tape Transport Mechanism Type	MG-70-83

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION
11 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 30-20,000 Hz with no more than 1% total harmonic distortion per Car Stereo Ad Hoc Committee standards.

OTHER SPECIFICATIONS

Power amplifier section

Outputs — Speaker outputs (sure seal connectors); Line outputs (phono jacks)
Inputs — Line inputs (phono jacks)
Speaker impedance: 4-8 ohms
Maximum power output: 20 watts per channel at 4 ohms* (4 channels driven)
*Measured at 14.4V

Cassette player section

Tape — Prerecorded tape cassette
Head — Playback head
Tape track — 4-track 2-channel stereo
Frequency response: 30—18,000 Hz (±3 dB)
Signal-to-noise ratio: Dolby NR off: With type II, III, IV cassette 58 dB (A-weighted); With type I cassette 55 dB (A-weighted)
Dolby NR effect: More than 8 dB (CCIR/ARM)
Wow and flutter: 0.13% (WRMS)
Fast winding time: Approx. 100 sec. (with Sony C-60 cassette)
Crosstalk — Between channels: better than 30 dB

FM/AM CASSETTE CAR STEREO

SONY®

AUD

Tuner section

System: FM/AM superheterodyne tuner
Computerized quartz-locked synthesizer system

FM tuner section

Tuning range: 87.9—107.9 MHz (US, Canadian Model)
87.5—108 MHz (AEP Model)
87.5—107.9 MHz (E Model)
Antenna terminal
FM/AM external antenna connector
FM/AM power antenna relay control lead
Intermediate frequency
10.7 MHz
Usable sensitivity
15 dBf (75 ohms)
Sensitivity at 50 dB quieting
20 dBf (75 ohms)
Selectivity: 70 dB at 400 kHz
Signal-to-noise ratio
65 dB (stereo),
68 dB (mono)
Harmonic distortion at 1 kHz
0.3% (stereo),
0.2% (mono)
Separation: 40 dB at 1 kHz
Frequency response
30—15,000 Hz
Capture ratio: 2.0 dB

AM tuner section

Tuning range: 530—1,620 kHz (US, Canadian Model)
531—1,611 kHz (AEP, E Model)
Antenna terminal
FM/AM external antenna connector
FM/AM power antenna relay control lead
Intermediate frequency
450 kHz
Sensitivity: 35 μV

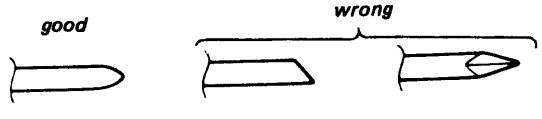
General

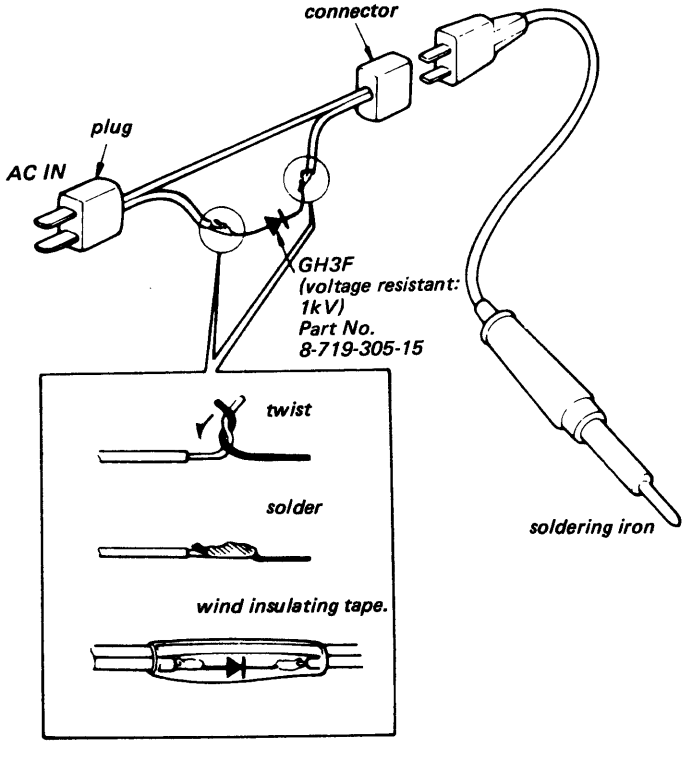
Time display system
12-hour display (US, E, Canadian Model)
24-hour display (AEP Model)
Tone controls: Bass ±8 dB at 100 Hz
Treble ±8 dB at 10 kHz
Loudness (at −30 dB)
+6 dB at 100 Hz
+5 dB at 10 kHz
Output lead: Power antenna relay control lead
Input lead: Remote control input lead
Power requirements
12 V dc car battery (negative ground)
Dimensions: Approx. 178 x 50 x 160 mm (w/h/d) (7 x 2 x 6¾ inches) not incl. projecting parts and controls
Mounting dimensions
Approx. 178 × 50 × 145 mm (w/h/d) (7 × 2 × 5¾ inches) not incl. projecting parts and controls
Weight: Approx. 1.6 kg (3 lb 9 oz)

FLEXIBLE CIRCUIT BOARD REPAIRING

1. Keep the temperature of the soldering iron at 270° ± 10°C during repairing.
   You can maintain the temperature of the soldering iron around 270°C by using the thermal controller as illustrated on the right.
2. Do not touch the soldering iron more than 4 seconds or 3 times on the same conductor of the circuit board.
3. Do not apply force on the conductor when soldering or unsoldering.

Tip of soldering iron





REPLACING CHIP COMPONENTS

All chip components should be connected and disconnected, using a tapered soldering iron [temperature of the iron tip: less than 280°C (536°F)], a pair of tweezers and braided wire.

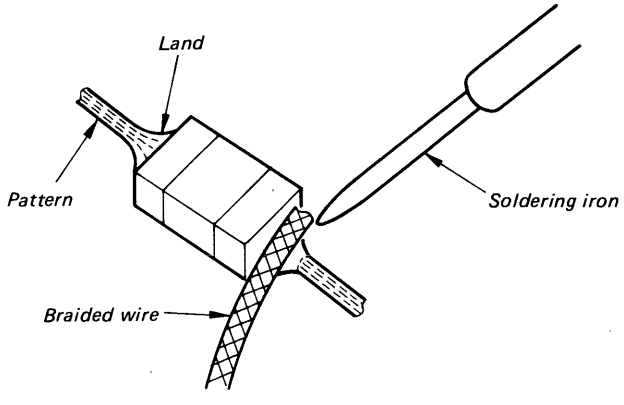
Precautions for replacement

1. **Do not disconnect the chip component forcefully. Otherwise, the pattern may peel off.**
2. **Never re-use a disconnected chip component. Dispose of all old chip components.**
3. **To protect the chip component, heating time for attaching the component should be within 3 seconds.**

○ Removing chip components

(1) Removing solder at electrode

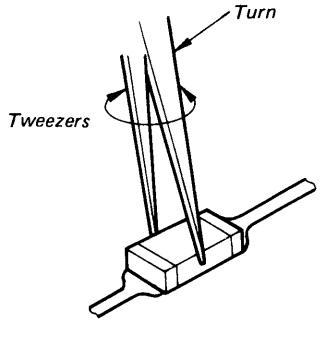
Remove the solder at the electrode, using a thin braided wire. Do not remove the solder of the part (chip component) attached adjacent to the electrode.



(2) Disconnecting chip components

Turn the tweezers with the soldering iron alternately applied to both electrodes, and the chip component will be disconnected. Take careful precautions while disconnecting, because if the chip component is forcefully removed the land may peel off.

Never re-use a disconnected chip component.



(3) Smoothing the soldered surface

After disconnecting the chip component, remove the solder by using a braided wire to smooth the land surface.

○ Connecting chip components

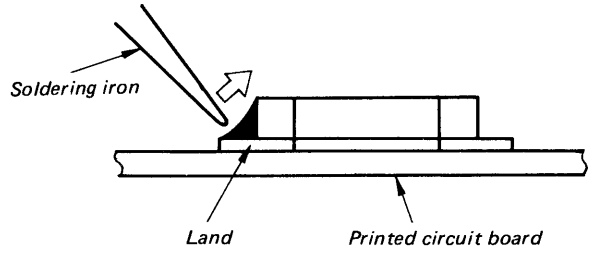
The value of chip components is not displayed on the main body. Take due precautions to avoid mixing new chip components with other ones.

(1) Applying solder to land on one side

Apply a thin layer of solder to the land on one side where the chip component is to be connected. Too much solder may cause bridging.

(2) Speedy soldering

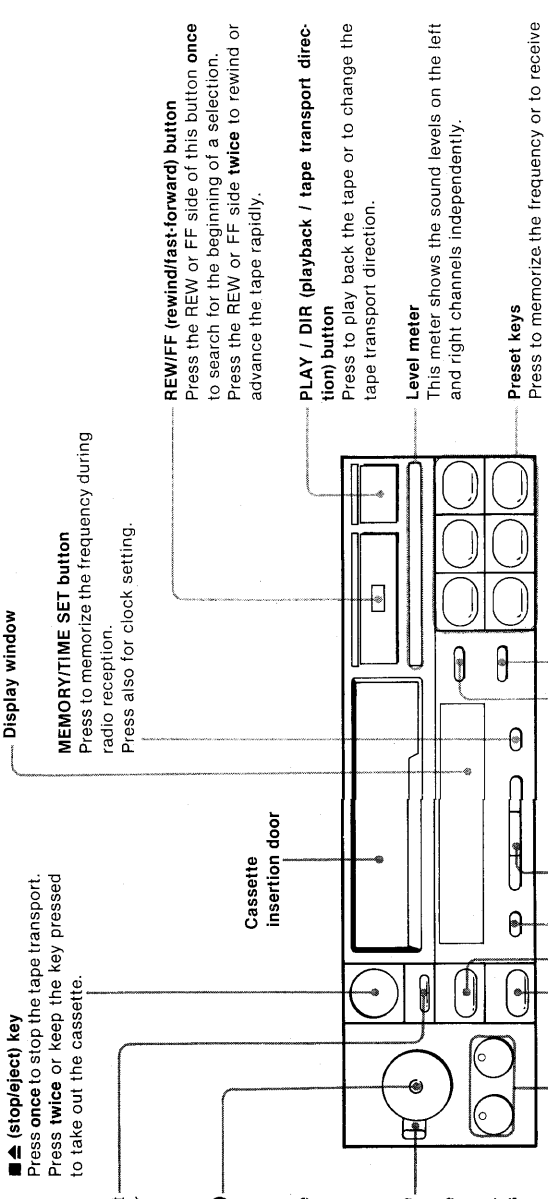
Hold the chip component at the desired position, using tweezers, and apply the soldering iron in the arrow-marked direction. To protect the chip component, heating time should be within 3 seconds.



(3) Speedy soldering of electrode on the other side

Solder the electrode on the other side in the same way as in (2) above.

LOCATION AND FUNCTION OF CONTROLS



Display window

MEMORY/TIME SET button
Press to memorize the frequency during radio reception.
Press also for clock setting.

REW/FF (rewind/fast-forward) button
Press the REW or FF side of this button **once** to search for the beginning of a selection.
Press the REW or FF side **twice** to rewind or advance the tape rapidly.

PLAY / DIR (playback / tape transport direction) button
Press to play back the tape or to change the tape transport direction.

Level meter
This meter shows the sound levels on the left and right channels independently.

Preset keys
Press to memorize the frequency or to receive a preset station.

METAL/LOCAL button
During tape playback
Press for a TYPE II (CrO_2), TYPE III (Fe-Cr) or TYPE IV (METAL) cassette. The METAL indicator in the display window will appear.

During radio reception
Press to receive only strong signal stations or to receive an AM station at night. The LOCAL indicator in the display window will appear.

DOLBY NR* / MONO button
During tape playback
Press for playing back a Dolby NR processed tape. The DOLBY NR indicator in the display window will appear.

During radio reception
Press if noise makes it hard to hear the FM program. The MONO indicator in the display window will appear. In this mode, there is no stereo effect.

MANUAL button
Press to manually tune in the station.
Press also for clock setting.

SEEK key
Press for automatic tuning.

BAND key
Press to select the desired band.

DISPLAY button
Press to display time indication during radio reception.
Press again to resume the frequency indication.

Cassette insertion door

■⏏ (stop/eject) key
Press **once** to stop the tape transport.
Press **twice** or keep the key pressed to take out the cassette.

LOUDNESS key
Press to listen to either the radio or the tape at a low volume. The LOUD indicator will appear in the display window.

VOL(volume)/PUSH RADIO/PULL BAL(balance) control
Turn clockwise for more volume.
Press to turn on the radio.
While pulling out the control, turn to adjust the balance of the right and left channels.

FADER control
Turn clockwise to decrease the volume of the rear speakers with a 4-speaker system.
Turn counterclockwise to decrease the volume of the front speakers.
Adjust the total volume using the VOL control. Set to the center position when the unit is used in a 2-speaker system.

BASS and TREBLE controls
Press so that the controls pop out, and turn clockwise to increase the bass or treble response. Depress when the adjustment is completed.

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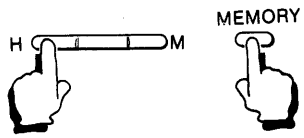
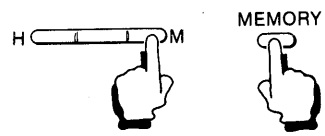
HOW TO SET THE CLOCK

When the connection is finished, the time indication is displayed in the display window. Set the time indication to the present time as follows.

To set the hour
While pressing the MEMORY button, press the H side of the MANUAL button.
Every time the H side is pressed, the number increases by one, up to 12, then goes back to 1. When you keep the H side pressed, the number increases up to 12 and returns to 1 repeatedly.



To set the minute
While pressing the MEMORY button, press the M side of the MANUAL button.
Every time the M side is pressed, the number increases by one, up to 59, then goes back to 00. When you keep the M side pressed, the number increases up to 59 and returns to 00 repeatedly.

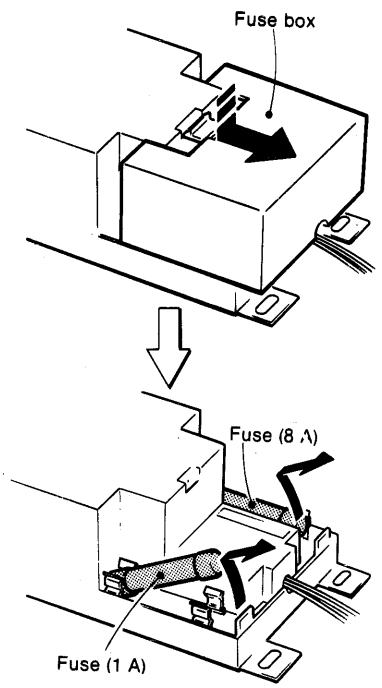


Zero second adjustment
If you want to adjust the time exactly to the second with a radio or telephone time signal, proceed as in the following example.

Example: To set to 9:00 to the second
1. Adjust the time indication to 9:59 as described before.
2. As soon as you hear the time signal on the telephone, radio or TV, while pressing the MEMORY button, press the M side of the MANUAL button.

FUSE REPLACEMENT

The fuse will blow if excessive current is drawn. If the fuse blows, check the power connection and replace the fuse following the illustration below. If the fuse blows again after replacement, there may be an internal malfunction. You should then consult your nearest Sony dealer.



Warning
Use only an 8 ampere fuse and a 1 ampere fuse. Use of a higher amperage fuse may cause serious damage.

SECTION 1
OUTLINE

1-1. CIRCUIT DESCRIPTION

[IC201 (μPD1708G-547)] • See XR-780 SERVICE MANUAL (page 6 – 10) for the circuit description of μPD1708G-604.

μPD1708G-547 is a 4 bit C-MOS microprocessor for digital tuning, and contains a prescaler which operates up to 150MHz, a PLL and LCD driver on one chip.

1. Outline of Functions

(1) Reception frequencies, Channel space, Reference frequencies, Intermediate frequencies

Destination	Band	Frequency range	Channel space	Reference frequency	Intermediate frequency
U.S.A.	FM	87.9 – 107.9 MHz	200 kHz	25 kHz	10.650, 10.700, 10.750 MHz
	AM	530 – 1,620 kHz	10 kHz	10 kHz	450 kHz
Japan	FM	76.0 – 90.0 MHz	100 kHz	25 kHz	10.650, 10.700, 10.750 MHz
	AM	522 – 1,629 kHz	9 kHz	9 kHz	450 kHz
Other	FM	87.5 – 107.9 MHz	100 kHz	25 kHz	10.650, 10.700, 10.750 MHz
	AM	531 – 1,611 kHz	9 kHz	9 kHz	450 kHz

(2) Radio Functions

1) Auto tuning
   – Scan up: Receives for 5 seconds on each scanned frequency.
   – Seek up: Stays at the frequency first received.
2) Manual tuning
   – Manual up/down: Tuning by step and fast tuning with push switch.
3) Preset memory call
   – U.S.A.: Capable of preset for 6 stations each in FM1, FM2 and AM.
   – Japan: Capable of preset for 6 stations each in FM and AM.
4) LOCAL/DX control output.
5) MONO/STEREO control output.
6) Stereo display.

(3) Tape Functions

1) Direction display
2) METAL control output
3) DOLBY control output
4) AMS control output

(4) Clock Function

12 hour display, colon flashes in one second cycles.

(5) Other Functions

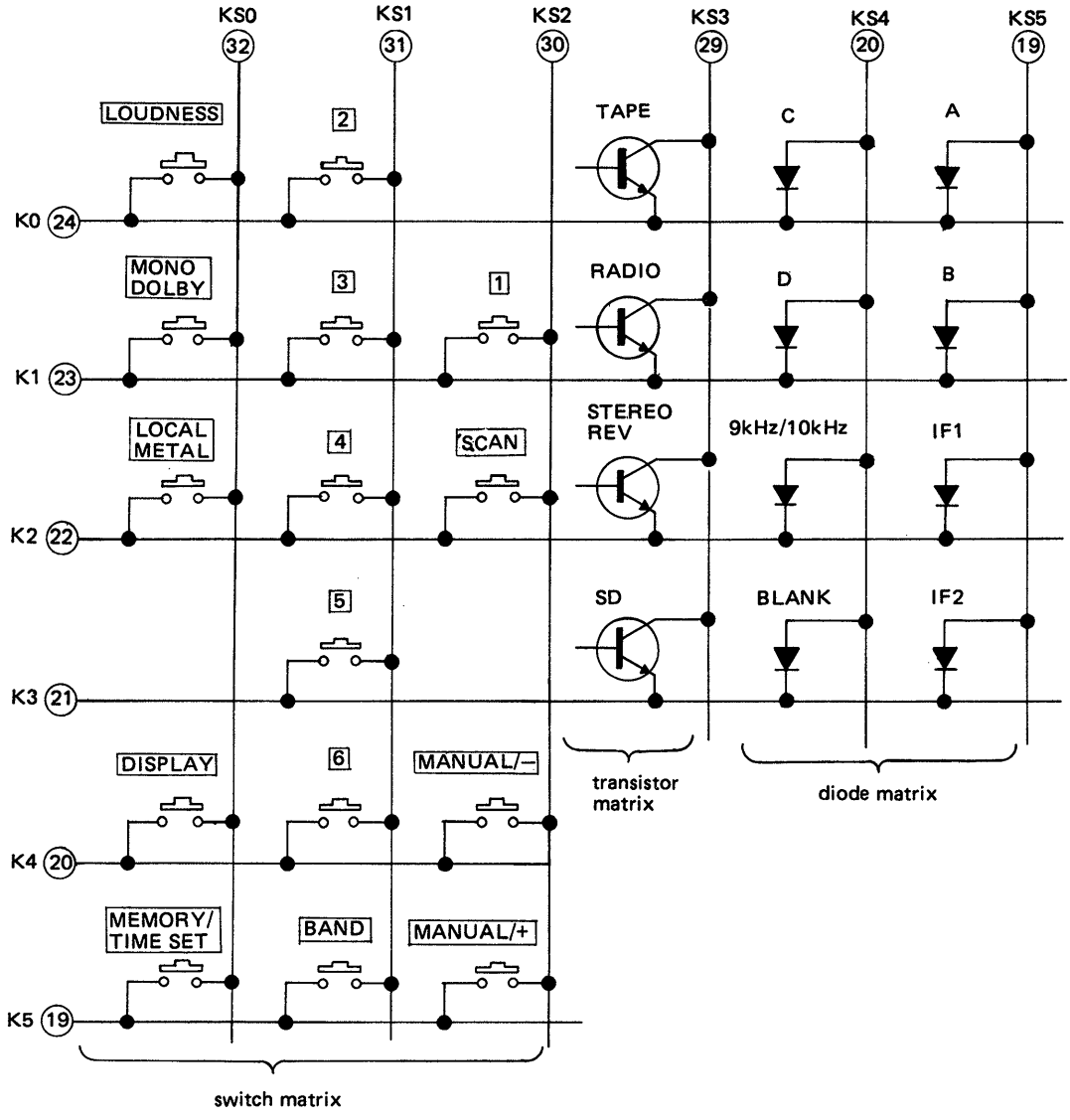
1) LOUDNESS control output
2) Key acknowledge output

2. Pin Functions

Pin No.	Symbol	IN/OUT	Function
1–4 34–52	LCD1–LCD23	OUT	LCD segment signal output pin.
5, 6	COM1, COM2	OUT	LCD common signal output pin.
7, 33	V_{DD}		Power supply pin. Pins (7) and (33) are connected inside the IC.
8	FM	IN	FM local oscillation input pin.
9	AM	IN	AM local oscillation input pin.
10	GND		Ground.
11, 12	EO1, EO2	OUT	PLL error output pin. Outputs "H" when the divided local oscillation frequency is higher than reference frequency, and low when it is lower.
13	CE	IN	Device selection signal input pin. "H" when ACC is ON.
14	NC		Not used
15, 16	XI, XO		Crystal oscillator connection pin. (4.5MHz)
17	MUTE	OUT	Muting signal output pin. Outputs "H" during TAPE/RADIO switching, when frequency changes and during band switching.
18	KEY ACK	OUT	Key acknowledge output. When a valid key functions, outputs "H" for about 44msec to turn the buzzer on.
19 20	KS5-K5 KS4-K4	OUT or IN	During reset during power supply input (VDD ON) or from back-up state (CE, "L" → "H"), output key return signal source for diode matrix take-in. Subsequently function as key matrix key return signal input pins.
21–24	K3–K0	IN	Key matrix key return signal input pins.
25	BAND-AMS	OUT	During RADIO: Band switching signal output pin. Outputs "H" for FM, "L" for AM. During TAPE: AMS signal output pin. Outputs "H" for AMS.
26	LOCAL/$\overline{\text{DX}}$-METAL	OUT	During RADIO: LOCAL/DX signal output pin. Outputs "H" for LOCAL, "L" for DX. During TAPE: METAL signal output pin. Outputs "H" for METAL.
27	MONO/$\overline{\text{STEREO}}$-DOLBY	OUT	During RADIO: MONO/STEREO signal output pin. Outputs "H" for MONO, "L" for STEREO. Only valid during FM, constantly "L" for AM. During TAPE: DOLBY signal output pin. Outputs "H" for DOLBY.
28	LOUDNESS	OUT	LOUDNESS signal output pin. Outputs "H" for LOUDNESS.
29	KS3	OUT	Transistor matrix key return signal source output.
30–32	KS2–KS0	OUT	Switch matrix key return signal source output.

3. Key Matrix

(1) Key Matrix Structure



(2) Diode Matrix for Initial Setting

There are 5 types of diode matrixes for initial setting, as shown below. These are all read in only when power supply is input (POWER ON RESET) and the CE pin goes from low to high (CE RESET), and after that the diode matrix state is ignored.

- Switches for destination setting: A, B
- Switches for AM band channel plan setting: 9kHz/10kHz
- Switch for selection when CE "L" is displayed: BLANK
- Switches for selecting DOLBY and AMS key valid or invalid: C, D
- Switches for setting FM band intermediate frequency: IF1, IF2

These settings are done by shorting or opening the nodes on the matrix with a diode. (On the following table, "1" indicates shorting by diode, and "0" indicates open.)

Diode Matrix for Initial Setting

<table>
<tr><th>Symbol</th><th>Description</th></tr>
<tr><td>A
B</td><td>These are switches for destination setting. Setting is as shown below.
<table>
<tr><th>A</th><th>B</th><th>Destination</th></tr>
<tr><td>0</td><td>0</td><td>U.S.A.</td></tr>
<tr><td>1</td><td>0</td><td>Japan</td></tr>
<tr><td>0</td><td>1</td><td>Other</td></tr>
<tr><td>1</td><td>1</td><td>–</td></tr>
</table></td></tr>
<tr><td>9kHz/10kHz</td><td>These switches are for setting AM band channel plan.
<table>
<tr><th>9kHz/10kHz</th><th>Frequency range</th><th>Channel space</th></tr>
<tr><td>0</td><td>530 – 1,620kHz</td><td>10kHz</td></tr>
<tr><td>1</td><td>522 – 1,611kHz</td><td>9kHz</td></tr>
</table></td></tr>
<tr><td>BLANK</td><td>Switch to select display when (13) CE pin goes low.
0: Clock display.
1: Blank (No display)</td></tr>
<tr><td>C
D</td><td>Switches for selecting DOLBY and AMS key valid or invalid.
<table>
<tr><th>C</th><th>D</th><th>DOLBY</th><th>AMS</th></tr>
<tr><td>0</td><td>0</td><td>X</td><td>X</td></tr>
<tr><td>1</td><td>0</td><td>X</td><td>O</td></tr>
<tr><td>0</td><td>1</td><td>O</td><td>O</td></tr>
<tr><td>1</td><td>1</td><td>O</td><td>X</td></tr>
</table>
In the table, "O" is valid, "X" is invalid.</td></tr>
<tr><td>IF1
IF2</td><td>These switches are for FM band intermediate frequency setting.
<table>
<tr><th>IF1</th><th>IF2</th><th>Intermediate frequency</th></tr>
<tr><td>0</td><td>0</td><td>10.7MHz</td></tr>
<tr><td>1</td><td>0</td><td>10.65MHz</td></tr>
<tr><td>0</td><td>1</td><td>10.75MHz</td></tr>
<tr><td>1</td><td>1</td><td>–</td></tr>
</table></td></tr>
</table>

(3) Transistor Switch for Mode Switching

Unlike the initial setting switches, these switches are always capable of switching. (In the table, "1" means switch ON, "0" means switch OFF.)

Mode Switching Transistor Switches

Symbol	Description
TAPE	Sets RADIO mode or TAPE mode. When TAPE switch is 1, the mode is TAPE regardless of the RADIO switch state. When RADIO switch is 1, the mode is RADIO if the TAPE switch is 0. When both are 0, the mode is clock display.
RADIO	
STEREO REV	During RADIO mode: Stereo signal input switch. When this switch is 1, "ST" is displayed on the LCD panel. However, "ST" display goes out even if this switch is 1 during clock display and during auto tuning. During TAPE mode: Tape running direction display signal input switch. When this switch is 1, "▶" is displayed on the LCD panel when "◀" is 0.
SD	Station detector input during auto tuning. This switch goes 1 within about 50ms after PLL locks. After 1 is detected once, then again 250-375ms later, SD existing is judged.

[IC701 (TC9310N-065)]

TC9310N-065 is a programmable ROM array LSI for sequence control, and performs mechanism control, muting control and LED control.

1. Pin Functions

Pin No.	Symbol	IN/OUT	Function
1	GND		Ground.
2	OSC		Time constant connection pin for internal clock generator.
3	CL	IN	System clear pin. Reset is done by making this pin go from low to high. For "L", the following state exists: – OSC circuit oscillation stops. – Muting output is high. – All other outputs are low. Also, same state as when this pin is low exists when pin (28) VDD becomes less than 3.8V due to the internal auto clear circuit.
4	ACC IN	IN	ACC power supply input pin. By inputting ACC power supply, EJECT is performed when the tape is inserted during KEY OFF EJECT and ACC OFF.
5	TAPE IN	IN	Tape detection input pin. Inputs high when a tape is inserted and detects completion of tape insertion and eject.
6	OUT SW	IN	EJECT detection input pin. Inputs high during EJECT operation and low when it is completed. This pin detects EJECT completion by pin 5 TAPE IN going low.
7	$\overline{\text{FWD/REV}}$	IN	FWD/REV identification input pin. Inputs "L" for FWD, "H" for REV.
8	$\overline{\text{AMS MODE}}$	IN	AMS mode selection pin. Inputs "L" for AMS mode. FF, REW switch ON → FF AMS, REW AMS FF, REW switch ON again → FF, REW During "OPEN" or "H" input: FF, REW switch double pressing is invalid (except pin 15 AMS IN input and pin (18) AMS MUTE, pin (23) AMS IND outputs are valid) and for FF, REW switch ON → FF, REW.
9	$\overline{\text{FF SW}}$	IN	FF switch input pin. "L" during FF switch ON.
10	$\overline{\text{REW SW}}$	IN	REW switch input pin. "L" during REW switch ON.
11	$\overline{\text{STAND BY}}$	IN	Stand-by mode selection pin. "L" input: Stop mode for EJECT switch input within 0.3 seconds. EJECT operation after 0.3 seconds or for double pressing. "H" input: Stop mode. "OPEN": EJECT switch double pressing is invalid, and EJECT switch ON results in EJECT operation.
12	$\overline{\text{EJECT SW}}$	IN	EJECT switch input pin. "L" during EJECT switch on. This input receives continuously and has high priority, so functions with priority over other inputs.
13	$\overline{\text{END}}$	IN	Tape END detection input pin. Inputs 8 pulses "⎍⎍⎍⎍⎍⎍⎍⎍" for 1 reel rotation during PLAY. Judges tape END when "L" for more 0.6 seconds.
14	$\overline{\text{DIR SW}}$	IN	PLAY/DIR switch input pin. Inputs " ⎍ " when PLAY/DIR switch is ON. Inputs via one-shot circuit as it is continuously received input.
15	AMS IN	IN	AMS release signal input pin. Inputs " ⎍ " during AMS detection.
16	STAND BY IND	OUT	Not used.
17	TAPE	OUT	Amp control output, tape system power supply control output pin. "H" during TAPE.
18	AMS MUTE	OUT	AMS muting output pin. Output " ⎍ " during PLAY → FF AMS, PLAY → REW AMS, FF AMS → REW AMS, REW AMS → FF AMS switching.
19	MUTE	OUT	Audio muting output pin. "H" during direction switching, FF, REW and AMS.
20	KEY ACK	OUT	Key acknowledge output pin. " ⎍ " when valid key is input, during tape insertion, and during EJECT.
21	REW IND	OUT	REW LED display output pin. "H" during REW, REW AMS.
22	FF IND	OUT	FF LED display pin. "H" during FF, FF AMS.
23	AMS IND	OUT	AMS LED display output pin. "H" during FF AMS, REW AMS.
24	PLG 3	OUT	DIR solenoid control output pin. DIR solenoid ON at "H".
25	PLG 2	OUT	REW solenoid control output pin. REW solenoid ON at "H".
26	PLG 1	OUT	FF solenoid control output pin. FF solenoid ON at "H".
27	MOTOR	OUT	Motor control output pin. Motor ON at "H".
28	VDD		Power supply pin.

2. Modes and Operation

(1) Reset Operation

Reset operation takes place when pin (3) CL goes from low to high, and during power supply input, when pin (28) VDD goes below 3.8V. When there is a tape inserted during reset, (when pin (5) TAPE IN or pin 6 OUT SW is ON), the operation changes to eject and the tape is ejected. When there is no tape, the mode is OFF.

(2) OFF Mode

OFF mode is all outputs OFF when no tape is loaded (pin (5) TAPE IN and pin (6) OUT SW are OFF). All key inputs are invalid in this mode. When a tape is inserted in this mode (pin (5) TAPE IN goes ON), rewind is done for about 0.6 seconds to take up tape slack and play begins. When a tape is inserted when pin (4) ACC IN is OFF, the tape slack is taken up, then operation changes to EJECT.

(3) EJECT Operation

For EJECT operation, the output of pins (24) PLG3 (26) PLG1 goes OFF, and output of pin (19) MUTE and pin (27) MOTOR goes ON. The maximum time for EJECT operation is 5.7 seconds, and when EJECT is not completed (pin (5) TAPE IN, pin (6) OUT SW both OFF) within this time, ER STOP mode begins. After EJECT operation, OFF mode results.

(4) ER STOP Mode

ER STOP mode is a mode for when EJECT can not be done due to catching in the mechanism, etc., and prevents battery wear by turning all outputs off. During ER STOP mode, it is possible to use the EJECT key to try to EJECT again. When completion of EJECT (pin (5) TAPE IN, pin (6) OUT SW both OFF) is confirmed during ER STOP mode, the mode changes to OFF.

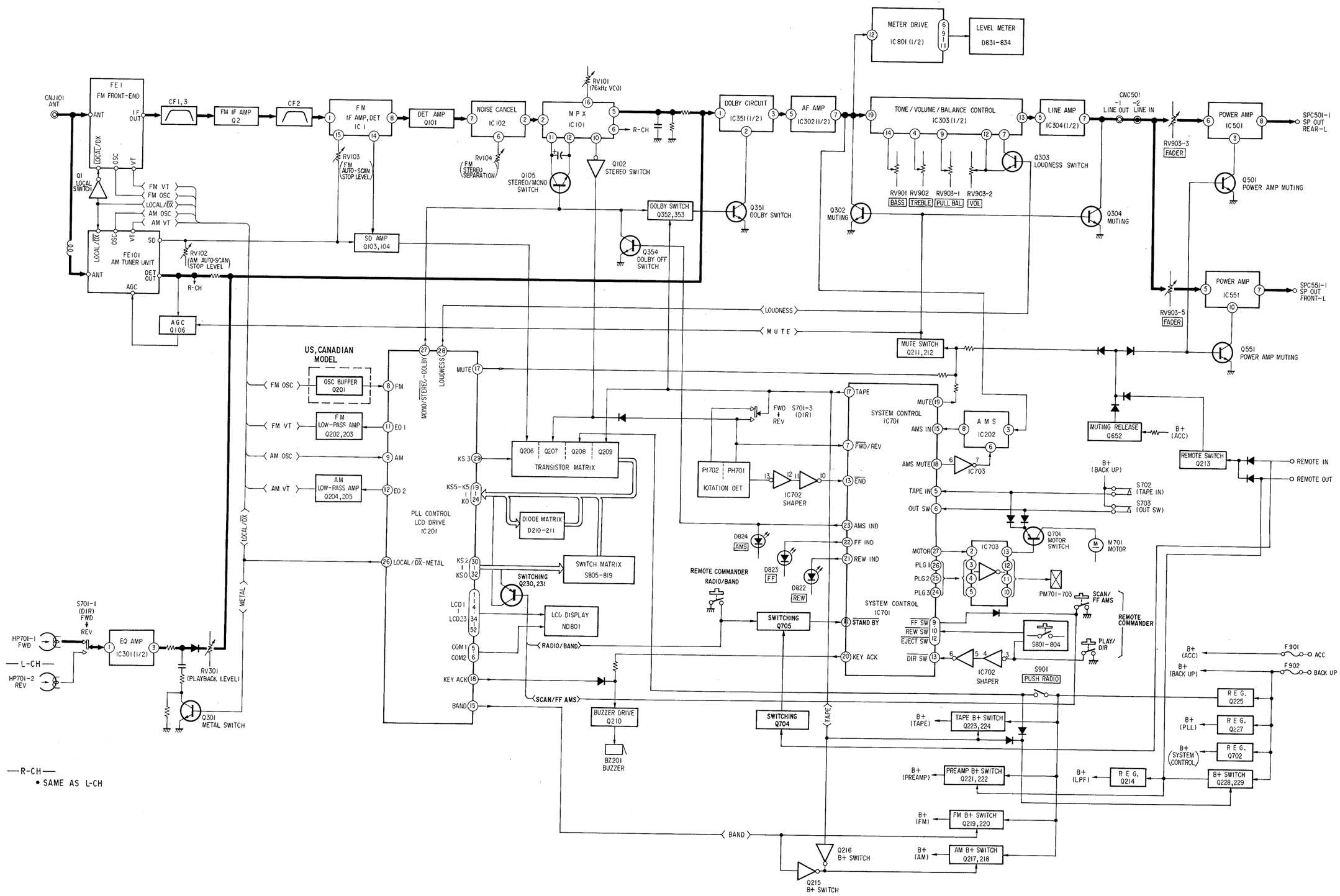
(5) PAUSE Operation

PAUSE operation occurs when pin (4) ACC IN goes off during PLAY, FF, REW, FF AMS, REW AMS. During PAUSE operation, pin (24) PLG3 and pin (19) MUTE outputs are ON, and other outputs are OFF. The maximum time for PAUSE operation is 5 seconds, and pin (4) ACC IN goes ON within 5 seconds after going OFF and PLAY begins. If it stays OFF for more than 5 seconds, EJECT operation takes place. Also, EJECT operation takes place immediately if the EJECT switch is pressed continuously for more than 1 seconds.

(6) STOP (STAND-BY) Mode

Stop mode takes place when pin (11) STAND BY input is low and EJECT switch is ON, or when it is "H". During stop mode, pin (24) PLG3 and pin (16) STAND BY IND outputs are ON and all other outputs are OFF. When there is pin (14) DIR SW input during stop mode, PLAY mode begins, and when there is pin (12) EJECT SW input, EJECT operation begins. When pin (4) ACC IN goes off during stop mode, PAUSE operation begins, and when pin (4) ACC IN goes on within 5 seconds, stop mode results, and when off for more than 5 continuous seconds, EJECT operation takes place.

1-2. BLOCK DIAGRAM

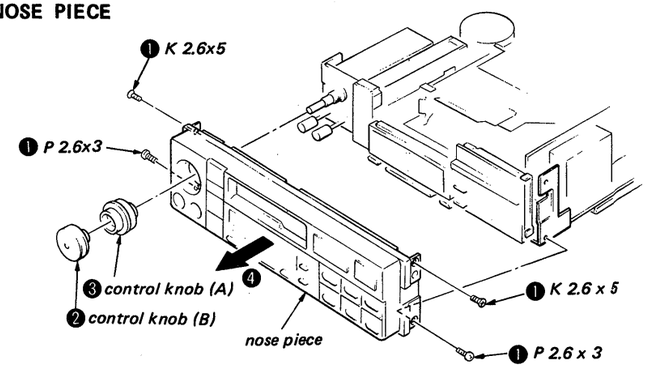


SECTION 2
DISASSEMBLY

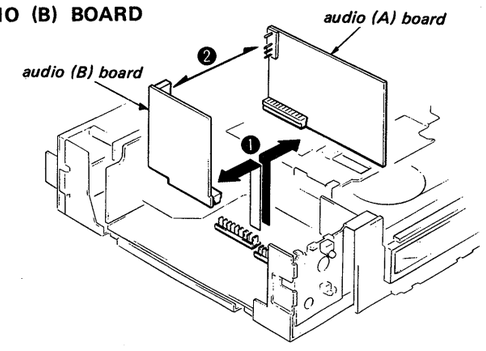
- Follow the disassembly procedure in the numerical order given.

CASE (UPPER)
Remove case by taking out four screws.

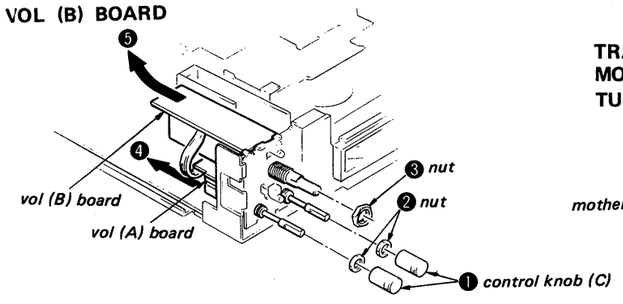
NOSE PIECE



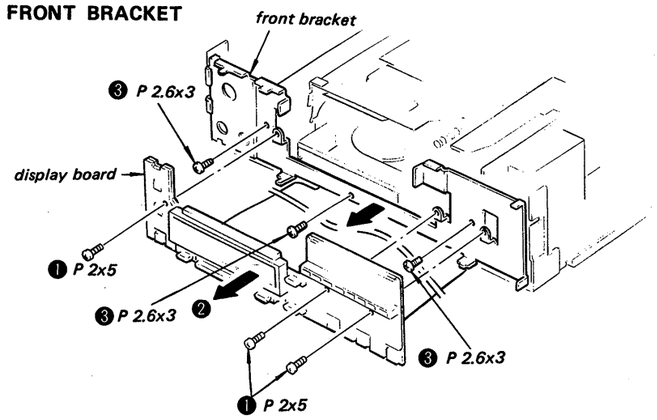
AUDIO (A) BOARD
AUDIO (B) BOARD



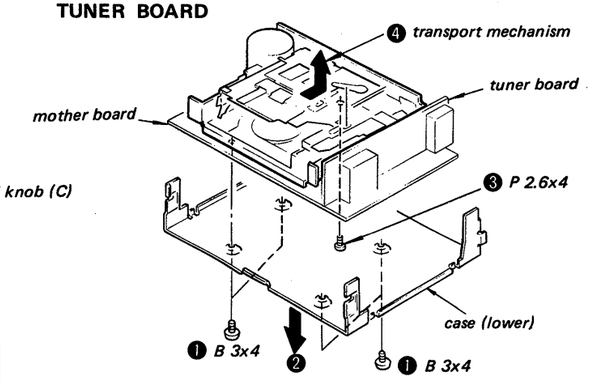
VOL (A) BOARD
VOL (B) BOARD



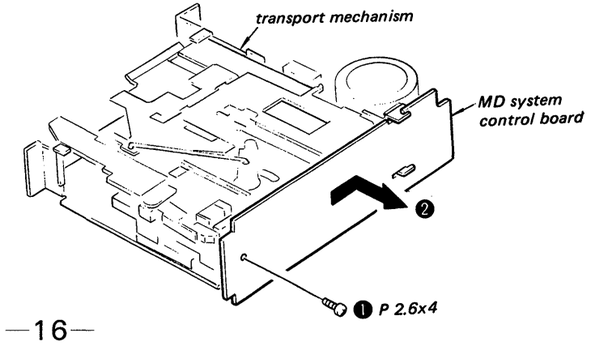
DISPLAY BOARD
FRONT BRACKET



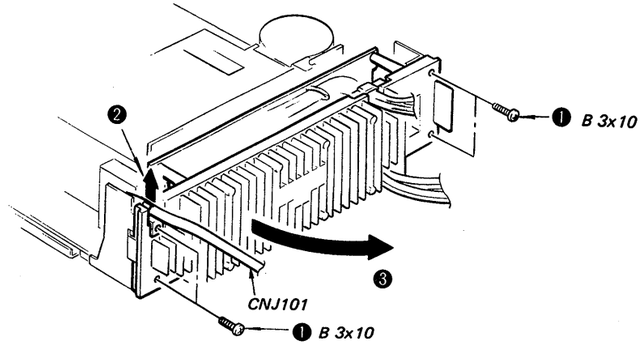
TRANSPORT MECHANISM
MOTHE BOARD
TUNER BOARD



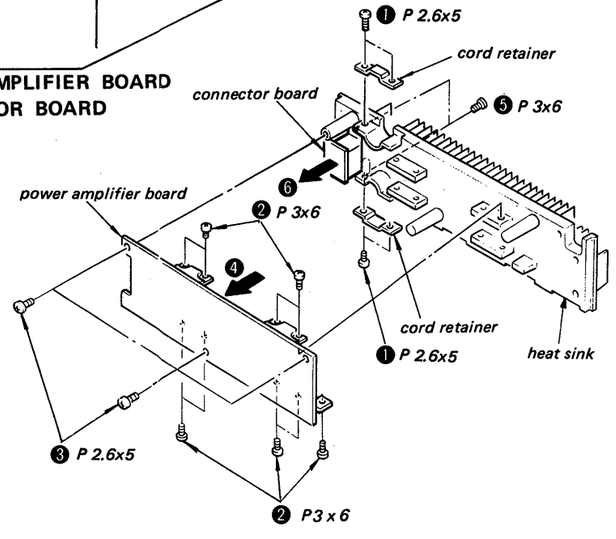
MD SYSTEM CONTROL BOARD



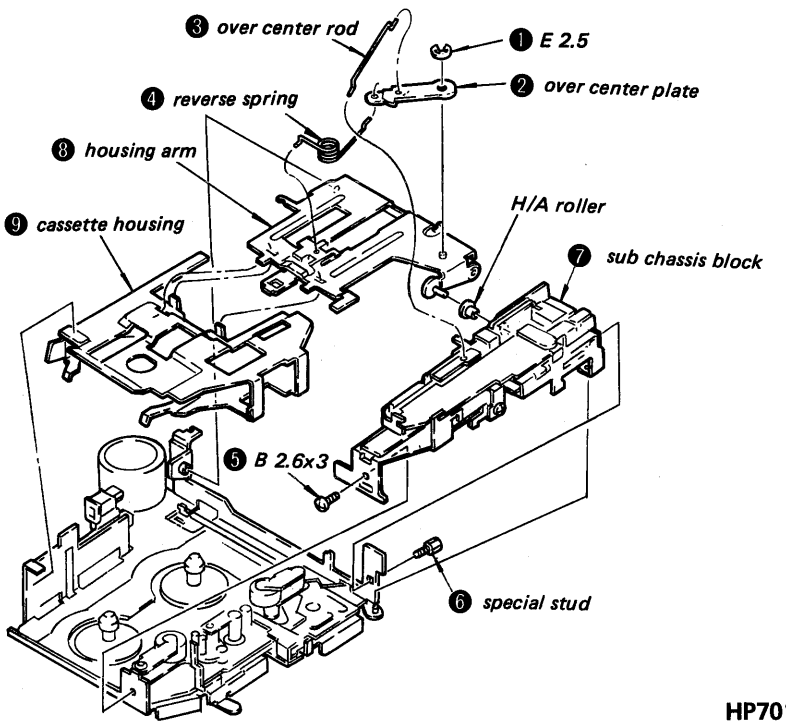
POWER SUPPLY BLOCK



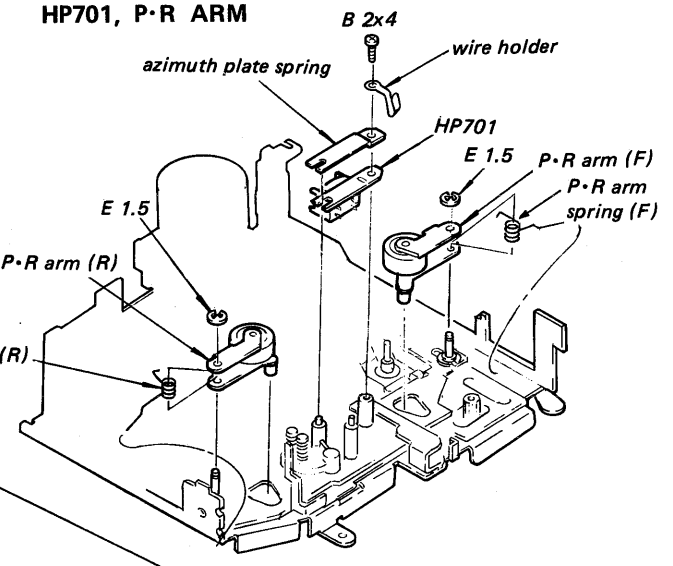
POWER AMPLIFIER BOARD
CONNECTOR BOARD



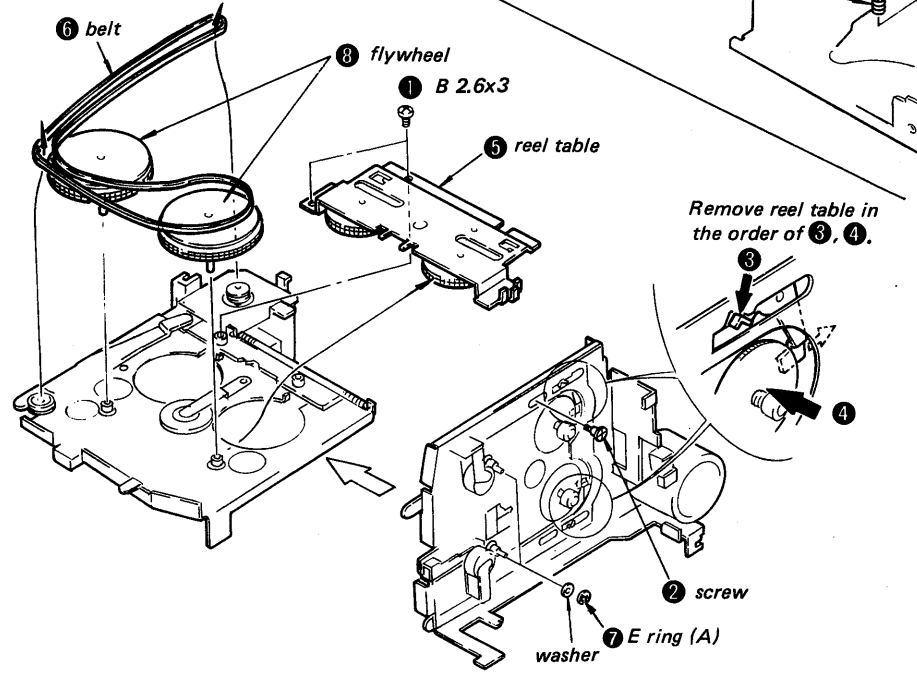
SUB CHASSIS BLOCK



HP701, P·R ARM



REEL TABLE, FLYWHEEL



SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

No mechanical adjustments applied to this unit.

- Torque Measurement

Mode	Torque Meter	Torque
FWD	CQ-102B	25 – 60 g•cm (0.35 – 0.84 oz•inch)
FF	CQ-201A	50 – 130 g•cm (0.7 – 1.82 oz•inch)
REW	CQ-201A	50 – 130 g•cm (0.7 – 1.82 oz•inch)
FWD back tension	CQ-102B	1 – 5 g•cm (0.014 – 0.07 oz•inch)

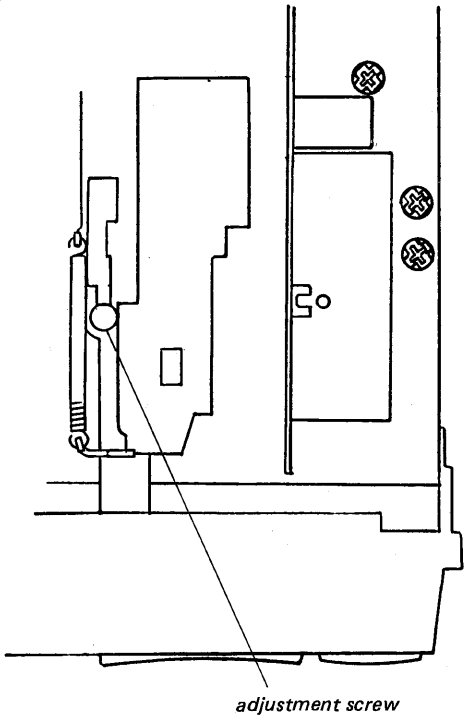
3-2. ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in this service manual.
The adjustments should be performed for both L-CH and R-CH.

- Power-supply voltage is +14.4V DC as per Ad Hoc recommendation.
- Switches and controls should be set as follows unless otherwise specified.

PUSH RADIO switch: RADIO
PULL BAL control: center click
FADER control: center click
BASS control: center click
TREBLE control: center click
LOUDNESS: OFF
DOLBY NR: OFF
METAL/LOCAL: OFF

Adjustment Location:

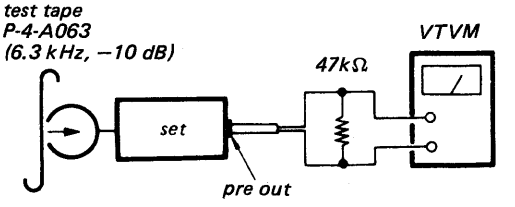


TAPE SECTION

Playback Head Azimuth Adjustment

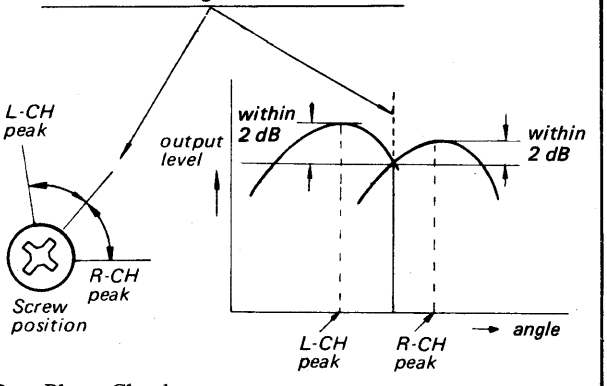
Procedure:

1. Mode: forward playback

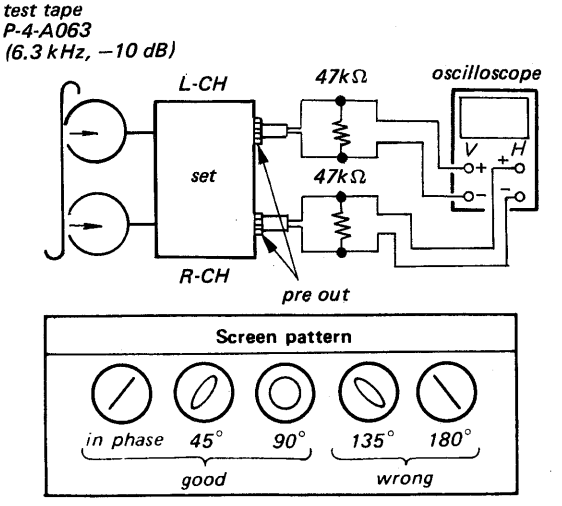


Adjust for forward (▶) direction and reverse (◀) direction.

2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 2 dB.



3. Phase Check
Confirm that phase difference between L-channel and R-channel is within 90°.

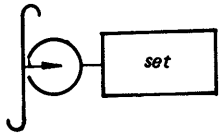


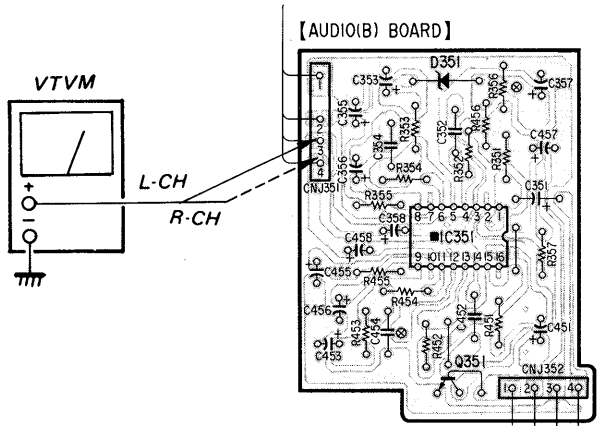
4. Repeat the above adjustment for reverse playback mode.
5. After the adjustment, lock the screw with locking compound.

Playback Level Adjustment

Setting:

test tape
P-4-L300
(315 Hz, 0 dB)





Procedure:

Adjust RV301 (L-CH) and RV401 (R-CH) to obtain −27.7dB (0.03V) reading on VTVM.

Adjustment Location: Mother board

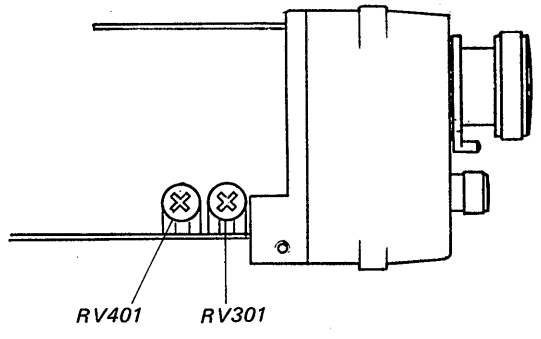
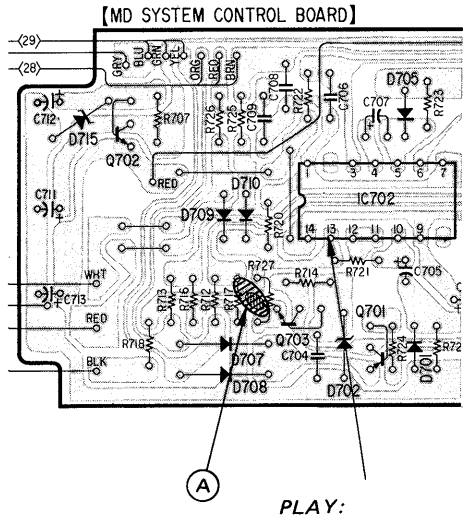


Photo Interrupter Adjustment



PLAY:

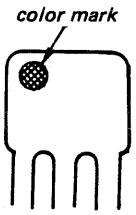
IC703 pin 13 L level	Solder bridge (A)
2V−1.5V	solder
less than 1.5V	unsolder

FM SECTION

The FM front-end is carefully adjusted at the factory and is supplied as one whole block for replacement.

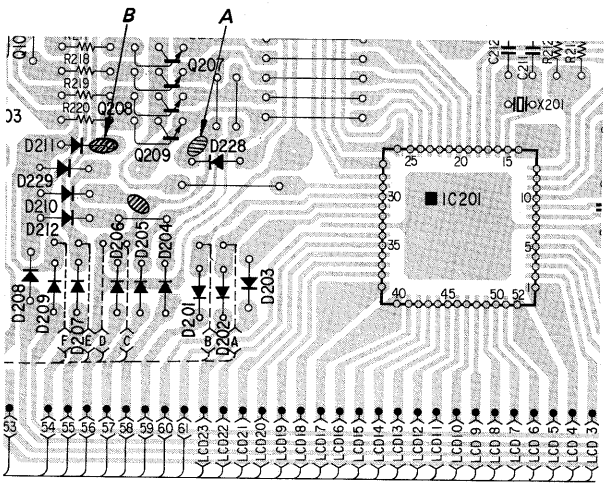
FM IF Offset Adjustment

This set employs two ceramic filters (CF1, 2) which should have the same color marking to identify their center frequency. Therefore FM IF offset adjustment by diodes connection (solder bridge) is necessary to match the center frequency of the ceramic filters used with FM intermediate frequency.



○ : solder
× : unsolder

Ceramic filter		Solder bridge		FM intermediate frequency (MHz)
Color mark	Center frequency (MHz)	A	B	
White	10.750	×	○	10.750
Red	10.700	×	×	10.700
Black	10.650	○	×	10.650



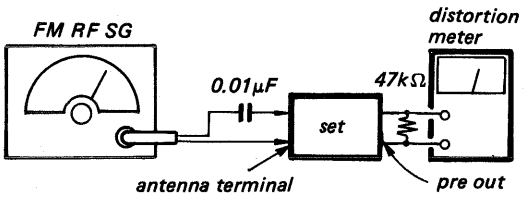
FM intermediate frequency is determined by the three types as shown above. Ceramic filters of same center frequency, i.e., of same color coding should be used for CF1 and CF2.

When replacing the ceramic filters, perform the FM Discriminator Adjustment.

FM Discriminator Alignment

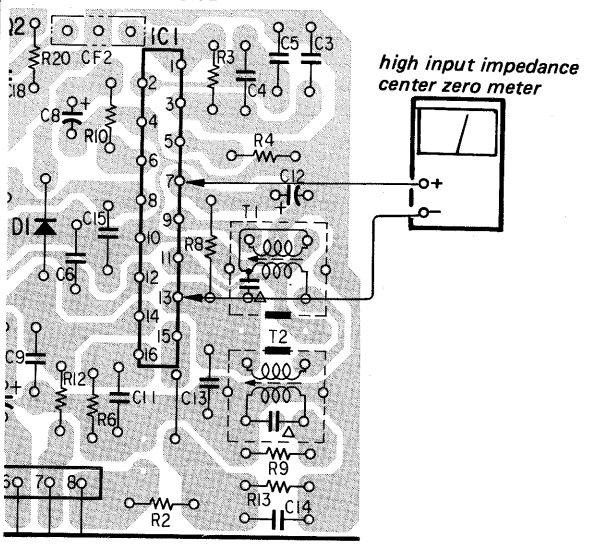
Setting:

BAND: FM MONO



Carrier frequency: 98.1 MHz
Output level: 60 dB (1 mV)
Modulation: 1 kHz, 75 kHz deviation (100%)

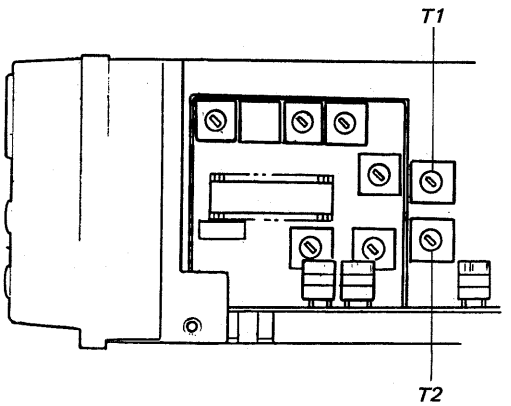
FM board



Procedure:

1. Slowly adjust the core of T1 to obtain a zero (0) V reading on high impedance center zero meter.
2. Adjust T2 for lowest distortion.
3. Repeat steps 1 and 2 until no further improvement is detected.

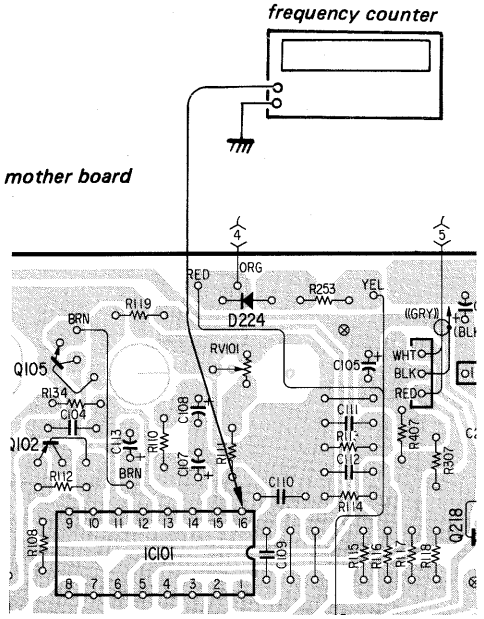
Adjustment Location: Tuner board



76kHz VCO Adjustment

Setup:

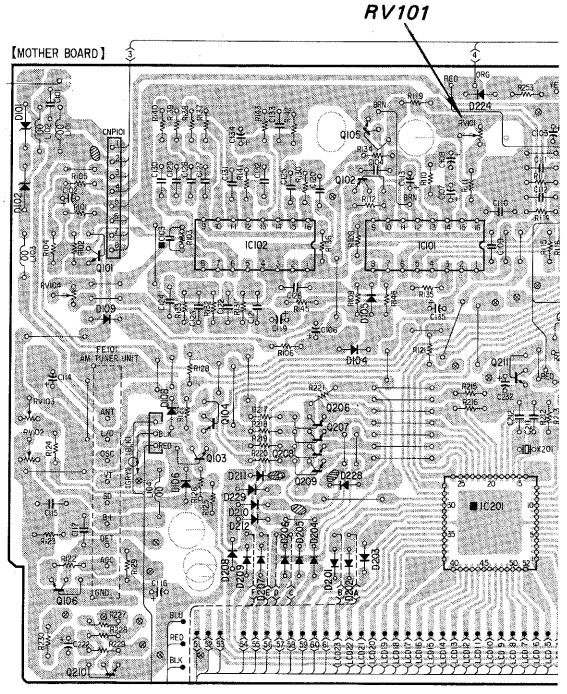
BAND: FM Stereo



Procedure:

Adjust RV101 to obtain 76kHz ±50Hz reading on frequency counter.

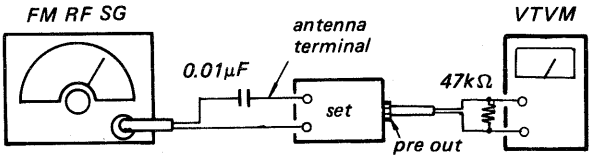
Adjustment Location: Mother board



FM Stereo Separation Adjustment

Setup:

BAND: FM Stereo
Frequency: 98.1 MHz



Carrier frequency: *98.1MHz*
Output level: *60dB (1mV)*
Modulation: *main: 1kHz, 33.75kHz dev.*
sub: 38kHz, 33.75kHz dev.
19kHz pilot: 7.5kHz dev.

Procedure:

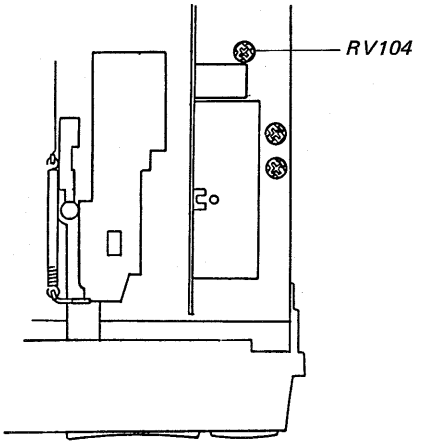
Adjust RV104 for a best stereo separation.
More than 40 dB is good.

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV104 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV104 for minimum reading.

L-CH Stereo separation: Ⓐ – Ⓑ
R-CH Stereo separation: Ⓒ – Ⓓ

The separations of both channels should be equal.

Adjustment Location: Mother board



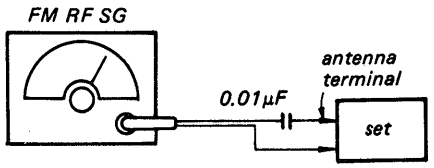
XR-787R

The AM Tuner unit is carefully adjusted at the factory and is supplied as one whole block for repalcement.

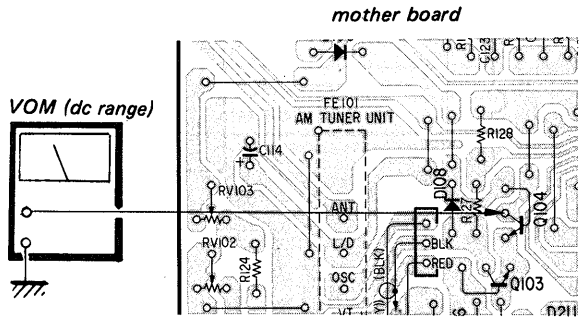
FM Auto-scan Stop Level Adjustment

Setup:

Band switch: FM MONO
Frequency: 98.1MHz



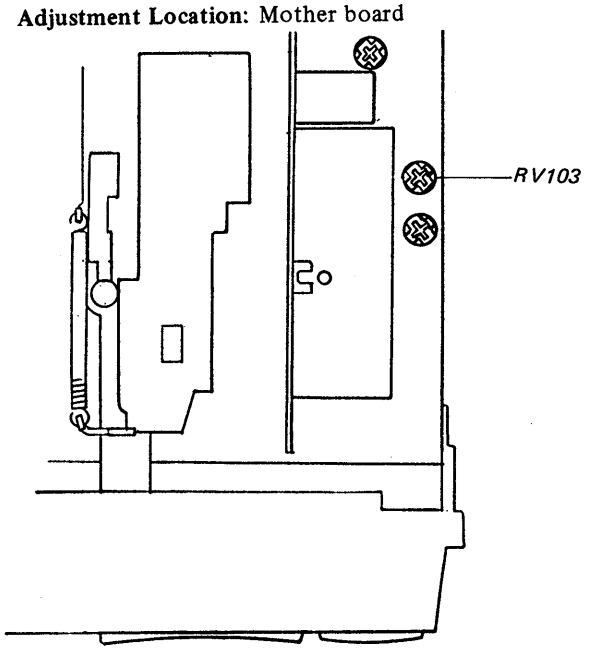
Carrier frequency: 98.1 MHz
Modulation: no modulation
Output level: 28 dB (25 μV)



Procedure:

1. Tune the set to 98 MHz.
2. Adjust RV103 at the point where the VOM reading changes from low to high.
3. Confirm that the set stops auto-scanning with FM RF SSG output level set at 28 ±1 dB.
   Confirm that the set does not stop auto-scanning at level of (stop level +1) dB.

Adjustment Location: Mother board



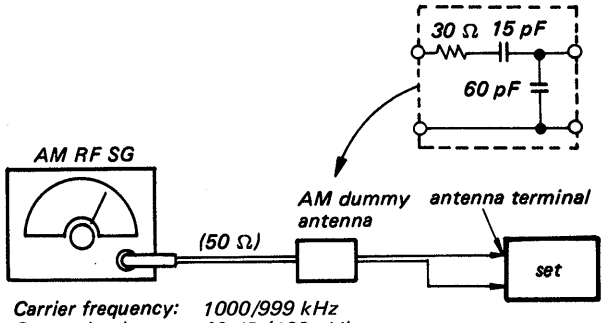
AM SECTION

AM Auto-scan Stop Level Adjustment

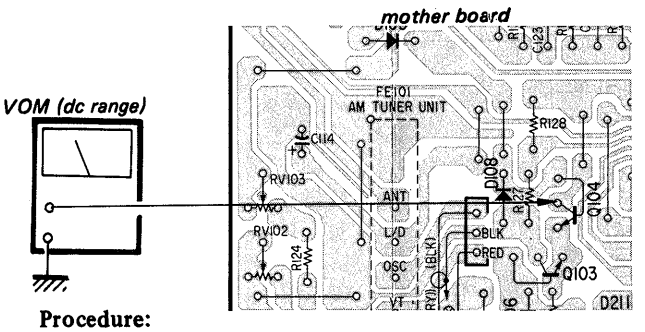
Note: Be sure to perform this adjustment after "FM Auto-scan Stop Adjustment".

Setup:

Band: MW
Frequency: 1000 kHz (with 10 kHz spacing)
999 kHz (with 9 kHz spacing)



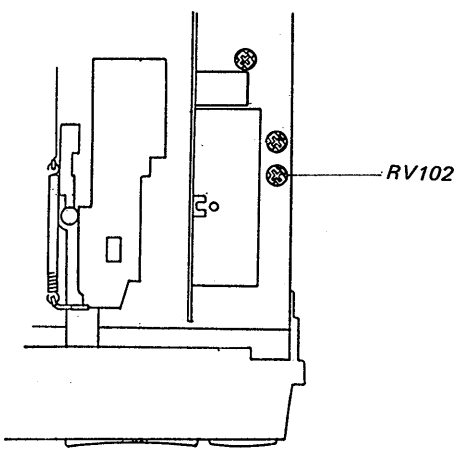
Carrier frequency: 1000/999 kHz
Output level: 40 dB (100 μV)
Modulation: no modulation



Procedure:

1. Tune the set to 1000/999 kHz.
2. Adjust RV102 at the point where the VOM reading changes from low to high.
3. Confirm that the set stops auto-scanning with AM RF SG output level set at 38 ±1dB.
   Confirm that the set does not stop auto-scanning at level of (stop level +1) dB.

Adjustment Location: Mother board



SECTION 4

DIAGRAMS

● See page 22 for the semiconductor lead layouts.

4-1. MOUNTING DIAGRAM

– For Mounting Diagram –

Note:

- Color code of sleeving over the end of the jacket.

- ○ : parts extracted from the component side.
- ● : parts extracted from the conductor side.

- : signal path
- : L-CH signal path
- : R-CH signal path
- : component-side pattern.

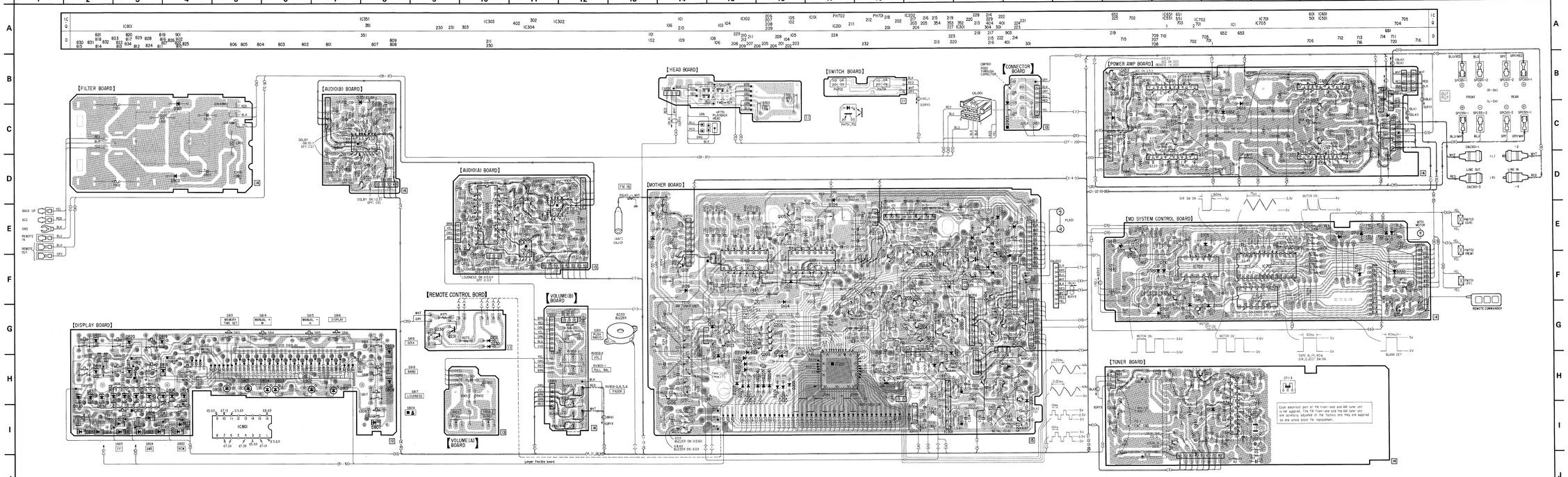
– For Schematic Diagram –

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- : signal path.
- △ : internal component.
- Switch

Ref. No.	Switch	Position
S701	DIR	FWD
S702	TAPE IN	OFF
S703	OUT SW	OFF
S801	PLAY/DIR	OFF
S802	FF	OFF
S803	REW	OFF
S804	EJECT	OFF
S805	1	OFF
S806	2	OFF
S807	3	OFF
S808	4	OFF
S809	5	OFF
S810	6	OFF
S811	DOLBY NR/MONO	OFF
S812	METAL/LOCAL	OFF
S813	MEMORY/TIME SET	OFF
S814	MANUAL +/M	OFF
S815	MANUAL –/H	OFF
S816	DISPLAY	OFF
S817	LOUDNESS	OFF
S818	BAND	OFF
S819	SEEK	OFF
S901	PUSH RADIO	OFF

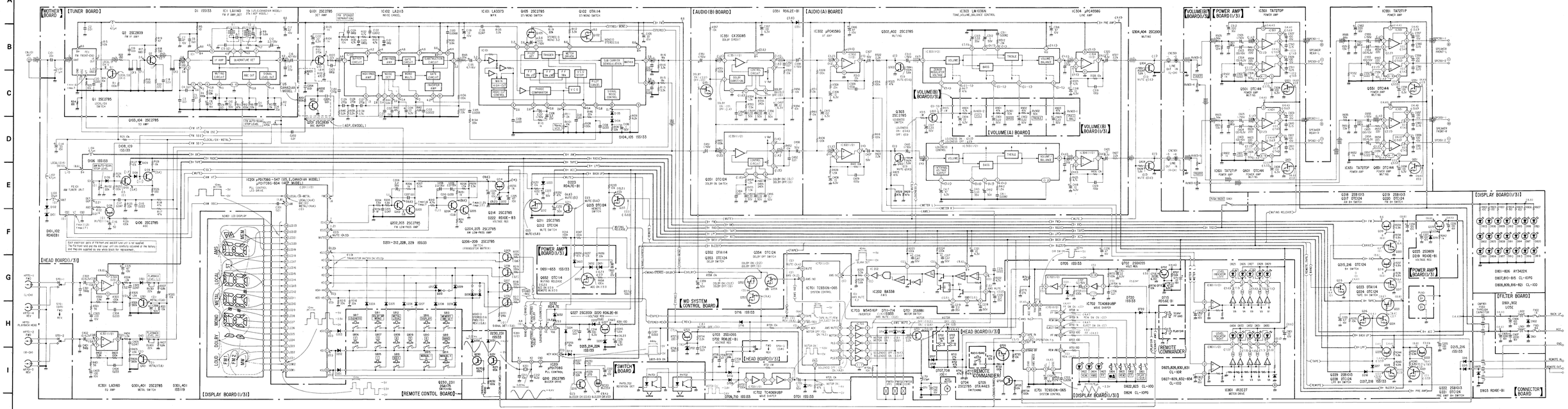
- : B+ bus.
- : adjustment for repair.
- Power voltage is 14.4V and fed with from dc power supply. Voltages are dc with respect to ground in no signal conditions with VOM (DC 50kΩ/V). Voltage variations may be noted due to normal production tolerances.
  no mark: FM ( ): AM
  [ ]: RADIO < >: TAPE
  << >>: RADIO or TAPE
  (( )): ACC and BACK UP


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
A B C D E F G H I J
【FILTER BOARD】
【AUDIO(B) BOARD】
【AUDIO(A) BOARD】
【HEAD BOARD】
【SWITCH BOARD】
【CONNECTOR BOARD】
【POWER AMP BOARD】
【MOTHER BOARD】
【MD SYSTEM CONTROL BOARD】
【DISPLAY BOARD】
【REMOTE CONTROL BORD】
【VOLUME(B) BOARD】
【VOLUME(A) BOARD】
【TUNER BOARD】
REMOTE COMMANDER
Jumper Flexible board
Each electrical part of FM front-end and AM tuner unit is not supplied. The FM front-end and the AM tuner unit are carefully adjusted at the factory and they are supplied as one whole block for replacement.

XR-787R XR-787R
XR-787R

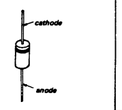
4-2. SCHEMATIC DIAGRAM

● See page 24 for note and pages 35, 36 for FM FRONT END and AM TUNER UNIT.

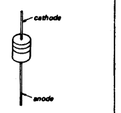


• Semiconductor Lead Layouts

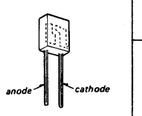
10E-2



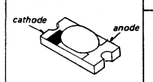
1SS133



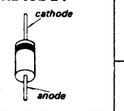
AY3422K



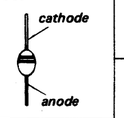
CL-10D
CL-10PG
CL-10R



RD4.7E-B1
RD5.6E-B3
RD6.2E-B1
RD8.2E-B1
RD10E-B1
RD10E-B2
RD16E-B1



U05G



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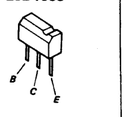
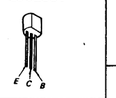
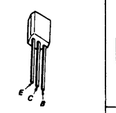
2SD1055



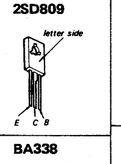
2SB1013
2SC2001



2SC2603F
2SC2839
DTA114ES
DTC114ES
DTC124ES
DTC144ES



2SC2785



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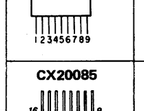
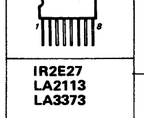
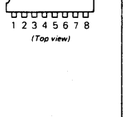


BA338

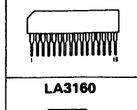


CX20085

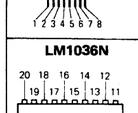


IR2E27
LA2113
LA3373

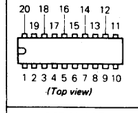
LA1140



LA3160



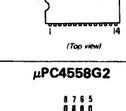
LM1036N



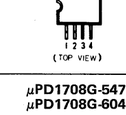
M54516P
TC4069UPB

TA7270P
TA7271P

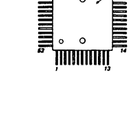
TC9310N-065



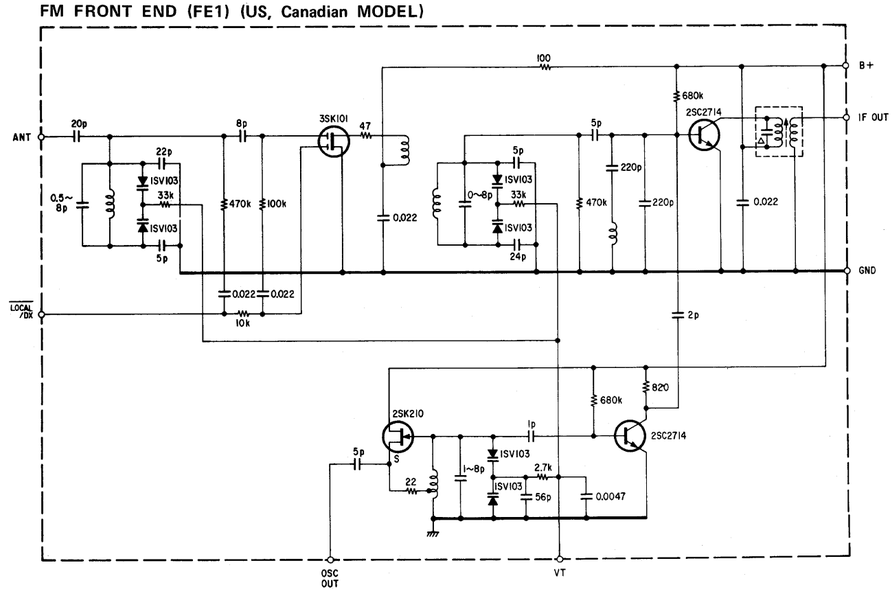
μPC4558G2



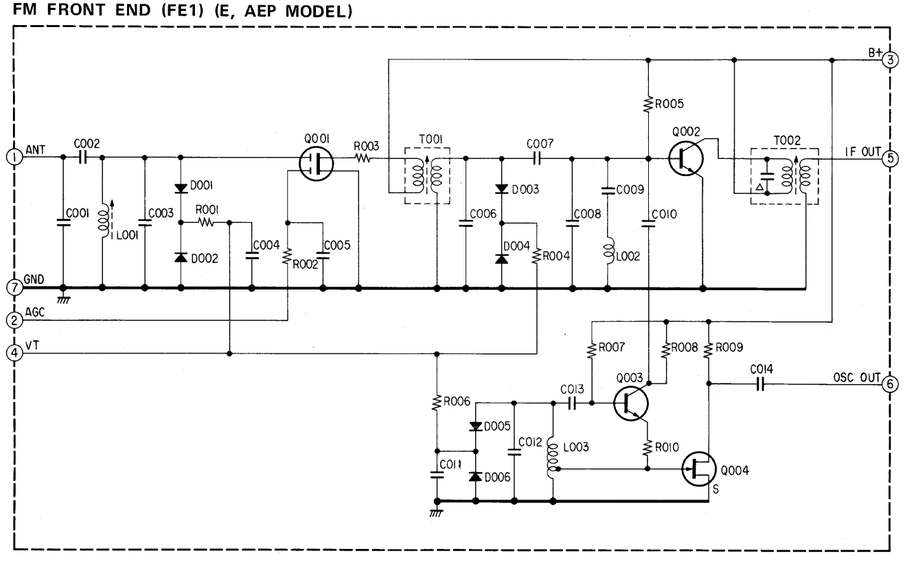
μPD1708G-547-00
μPD1708G-604-00



FM FRONT END (FE1) (US, Canadian MODEL)

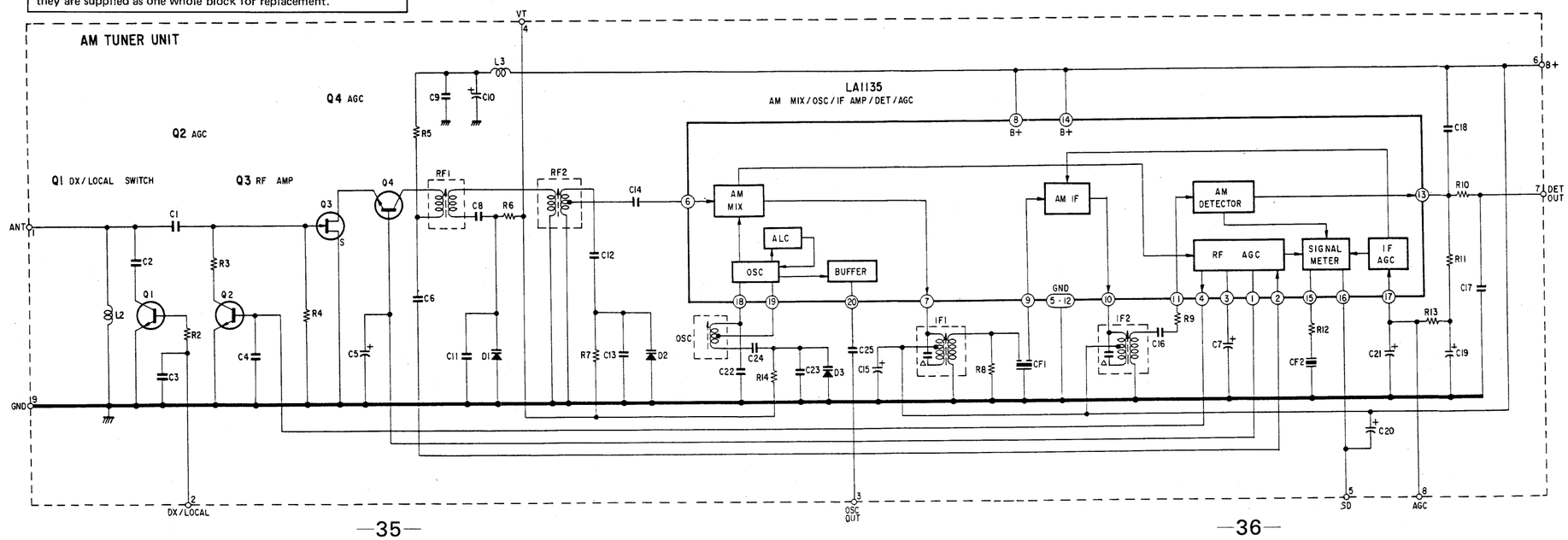


FM FRONT END (FE1) (E, AEP MODEL)



Each electrical part of FM and AM front-ends is not supplied. The FM and AM front ends are carefully adjusted at the factory and they are supplied as one whole block for replacement.

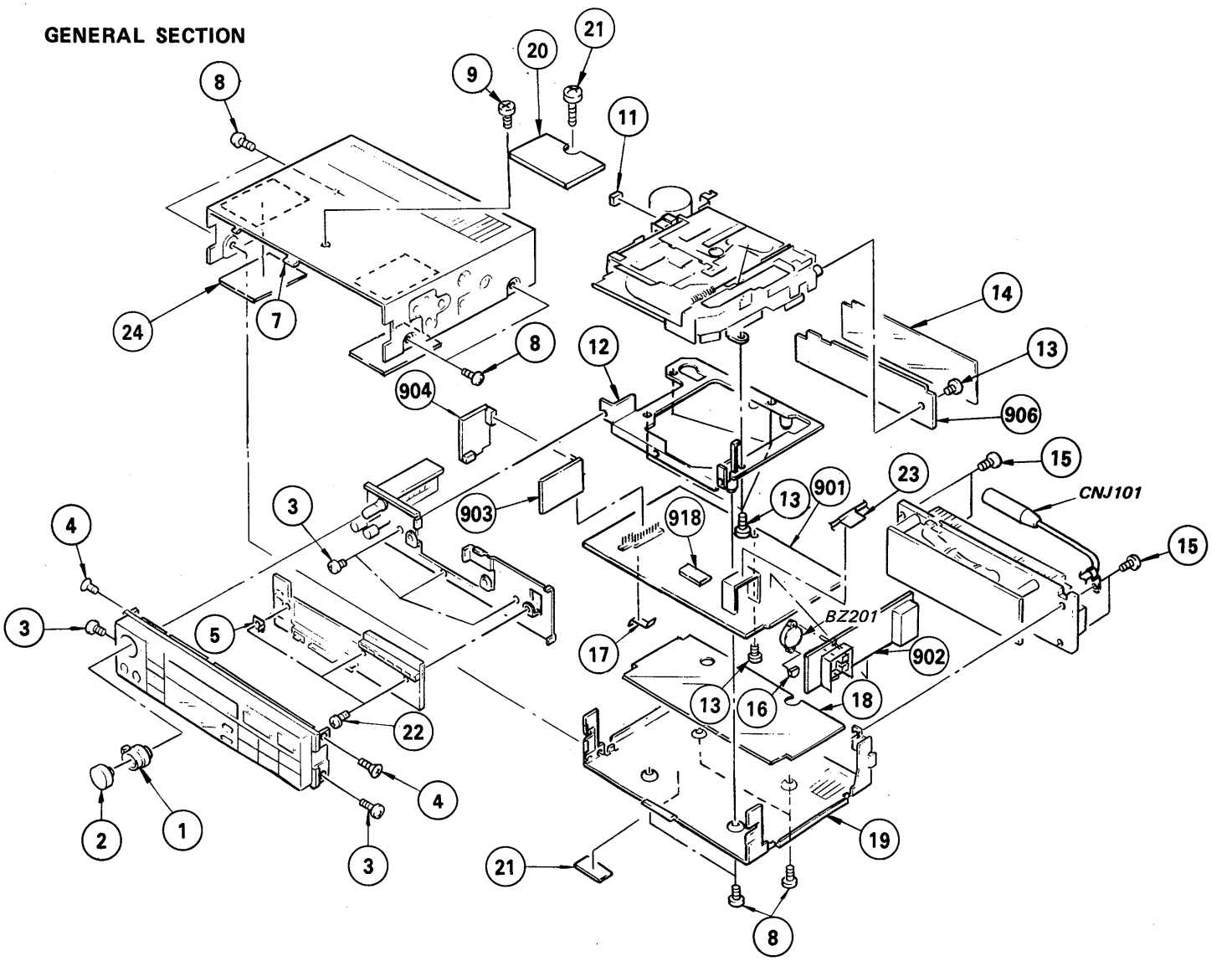
AM TUNER UNIT



SECTION 5
EXPLODED VIEWS

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

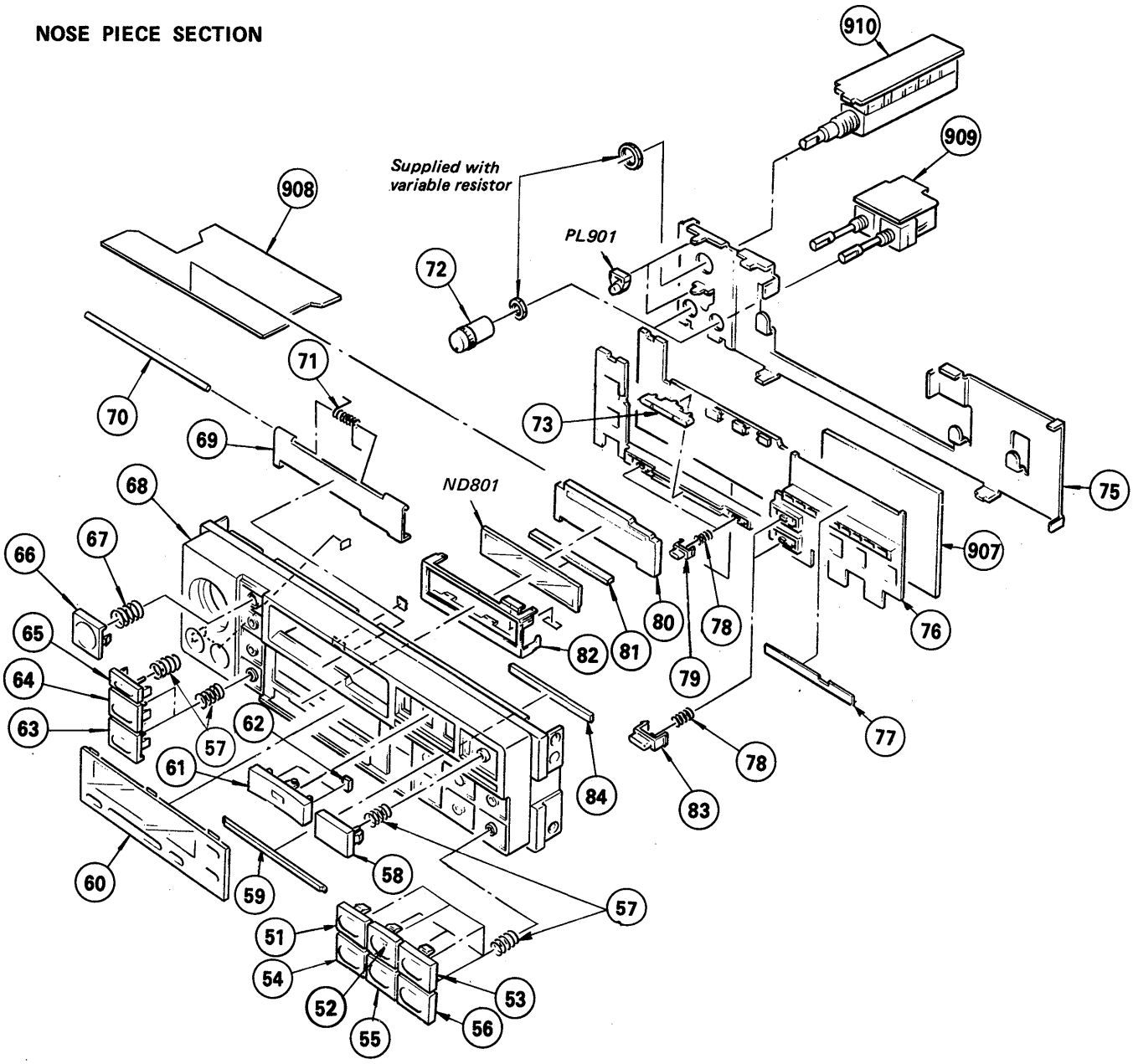
GENERAL SECTION



No.	Part No.	Description	Remarks
1	3-325-715-01	KNOB (A), CONTROL (FADER)	
2	X-3325-703-1	KNOB (B) ASSY, CONTROL (VOL)	
3	7-621-259-10	SCREW +P 2.6X3	
4	7-621-559-20	SCREW +K 2.6X4	
5	*3-325-755-01	SPRING (A)	
6	*3-325-750-01	LABLE	
7	*3-325-746-01	CASE (UPPER)	
8	7-682-545-09	SCREW +B 3X4	
9	3-325-739-01	SCREW, STEP	
11	3-438-077-00	CUSHION, RELEASE	
12	*X-3325-701-1	BRACKET ASSY, MD	
13	7-621-259-25	SCREW +P 2.6X4	
14	*3-325-734-01	INSULATOR	
15	7-682-549-09	SCREW +B 3X10	
16	9-911-839-XX	CUSHION, BUZZER	
17	*3-325-756-01	SPRING (B)	
18	*3-325-761-01	INSULATOR, CASE (LOWER)	
19	*3-325-745-01	CASE (LOWER)	

No.	Part No.	Description	Remarks
20	*3-332-103-02	(US).....LABEL, MODEL NUMBER	
	*3-332-104-02	(Canadian) ...LABEL, MODEL NUMBER	
	*3-332-116-02	(AEP).....LABEL, MODEL NUMBER	
	*3-332-117-02	(E).....LABEL, MODEL NUMBER	
21	3-327-110-01	SCREW, STOPPER	
22	7-621-255-35	SCREW +P 2X5	
23	*3-325-776-01	PLATE (A), SHIELD	
24	3-332-118-01	SPACER (B)	
901	*A-3260-375-A	MOUNTED PCB, MOTHER	
902	*A-3266-302-A	MOUNTED PCB, TUNER	
903	*A-3270-234-A	MOUNTED PCB, AUDIO (A)	
904	*A-3270-235-A	MOUNTED PCB, AUDIO (B)	
906	*A-3279-548-A	MOUNTED PCB,SYSTEM CONTROL,MD	
BZ201	1-529-014-00	BUZZER, PIEZOELECTRIC	
CNJ101	1-557-942-11	CORD (WITH CONNECTOR), ANTTENA	
918	*1-618-011-11	PC BOARD, REMOTE CONTROL	

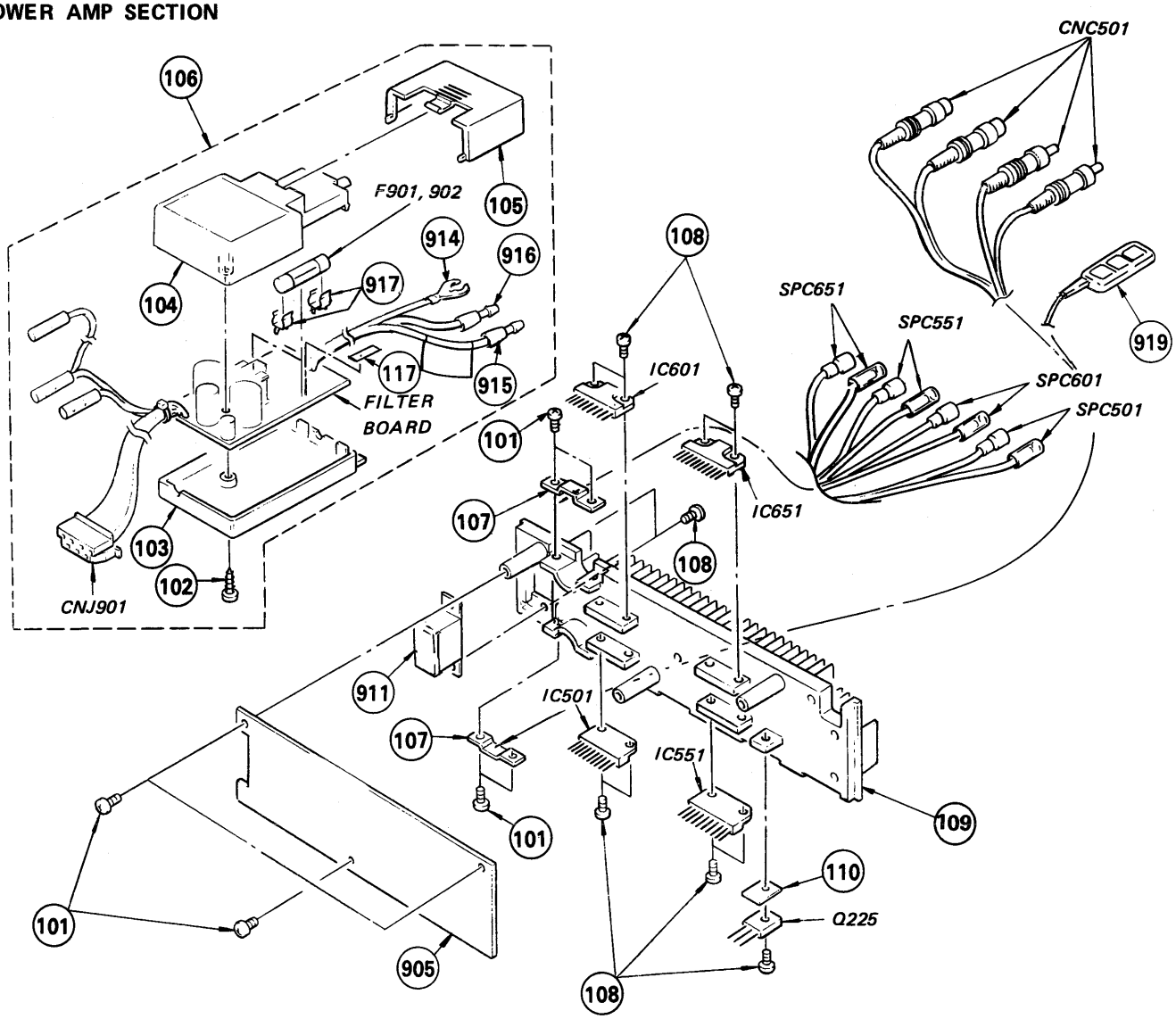
NOSE PIECE SECTION



No.	Part No.	Description	Remarks
51	3-325-727-01	BUTTON (A), PRESET (1)	
52	3-325-727-11	BUTTON (A), PRESET (2)	
53	3-325-728-01	BUTTON (B), PRESET (3)	
54	3-325-729-01	BUTTON (C), PRESET (4)	
55	3-325-729-11	BUTTON (C), PRESET (5)	
56	3-325-730-01	BUTTON (D), PRESET (6)	
57	3-325-705-01	SPRING, COMPRESSION	
58	3-325-724-21	BUTTON, DIR	
59	3-325-710-01	PLATE (B), ORNAMENTAL	
60	3-325-741-01	PLATE (A), ORNAMENTAL	
61	3-325-725-21	BUTTON, AMS	
62	9-911-844-XX	SPACER	
63	3-332-110-01	BUTTON, SEEK	
64	3-325-726-01	BUTTON, BAND	
65	3-325-723-01	BUTTON, LOUD	
66	3-325-722-11	BUTTON, EJECT	
67	3-325-733-01	SPRING, COMPRESSION	
68	A-3241-046-A	NOSE PIECE SUB ASSY	
69	A-3239-516-A	DOOR ASSY, CASSETTE	
70	*3-325-708-01	SHAFT, CASSETTE DOOR	

No.	Part No.	Description	Remarks
71	3-559-944-00	SPRING, DOOR	
72	X-3325-702-1	KNOB (C) ASSY, CONTROL (BASS/TREBLE)	
73	3-325-718-01	BUTTON, MANUAL	
75	*3-325-740-01	BRACKET, FRONT	
76	3-325-748-01	PANEL, CONTROL	
77	*3-325-769-01	COVER, PANEL	
78	3-325-706-01	SPRING, COMPRESSION	
79	3-325-720-01	BUTTON (B), DISPLAY/MEMORY	
80	*3-325-713-01	ILLUMINATOR, LCD	
81	3-325-735-01	CONNECTOR, RUBBER	
82	*3-325-742-01	HOLDER, LCD	
83	3-325-719-01	BUTTON (A), MONO/METAL	
84	*3-325-772-01	SHEET, DIFFUSION	
907	*1-615-528-11	PC BOARD, DISPLAY	
908	*1-615-583-11	PC BOARD, TRANSLATION	
909	*1-615-535-11	PC BOARD, VOL (A)	
910	*1-615-536-11	PC BOARD, VOL (B)	
ND801	1-807-190-11	(US, E, Canadian)...DISPLAY PANEL, LIQUID CRYSTAL	
	1-807-311-11	(AEP).....DISPLAY PANEL, LIQUID CRYSTAL	

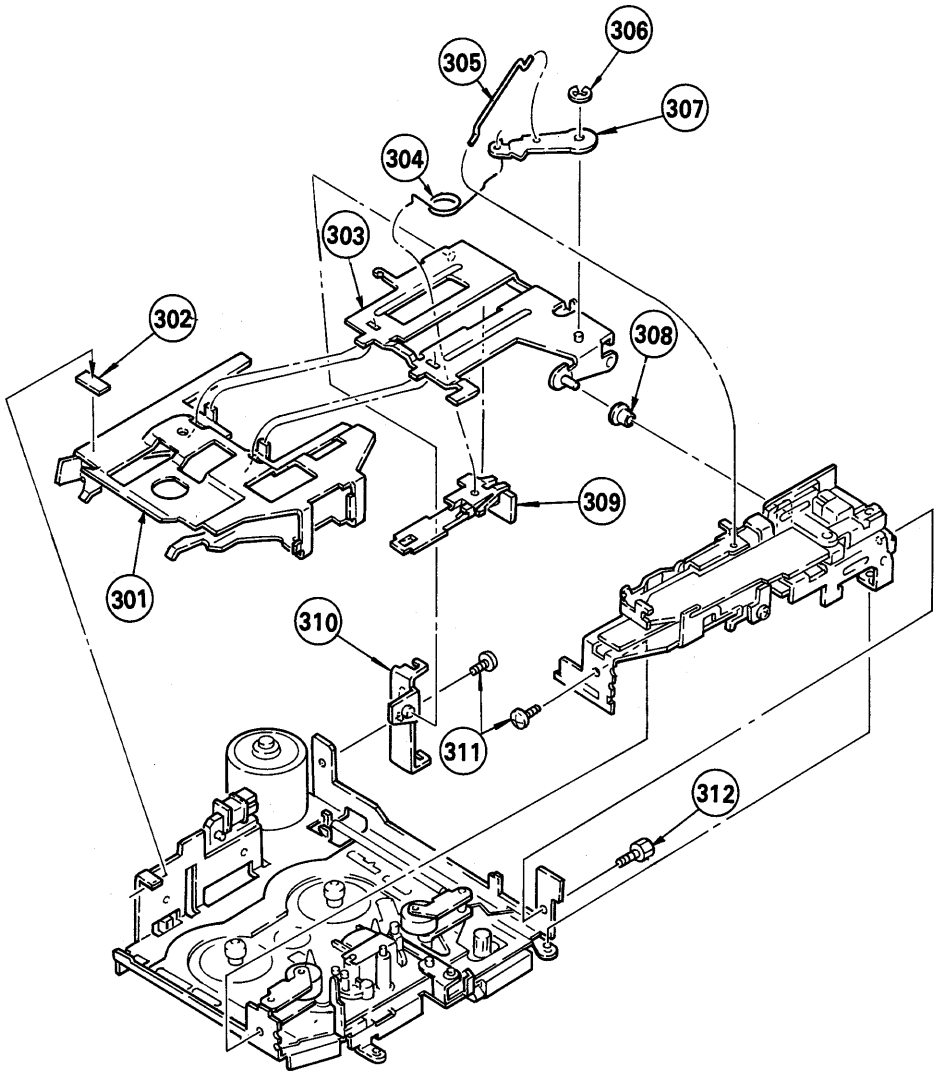
POWER AMP SECTION



No.	Part No.	Description	Remarks
101	7-685-132-21	SCREW +P 2.6X5 TYPE2 SLIT	
102	7-685-647-79	SCREW +BVTP 3X10	
103	*3-325-773-01	FILTER (A), NOISE	
104	*3-325-774-01	FILTER (B), NOISE	
105	*3-325-775-01	FILTER (C), NOISE	
106	A-3217-254-A	FILTER ASSY	102-105,914-917 F901,F902,CNJ901
107	*3-325-711-01	RETAINER, CORD	
108	7-682-547-04	SCREW +P 3X6	
109	*3-325-744-01	HEAT SINK	
110	*3-701-947-20	LABEL, FUSE 254	
116	3-566-928-00	SHEET, INSULATING	
905	*A-3270-329-A	MOUNTED PCB, POWER AMPLIFIER	
911	*1-615-584-11	PC BOARD, CONNECTOR	
914	1-555-475-21	CORD, GND (BLK)	

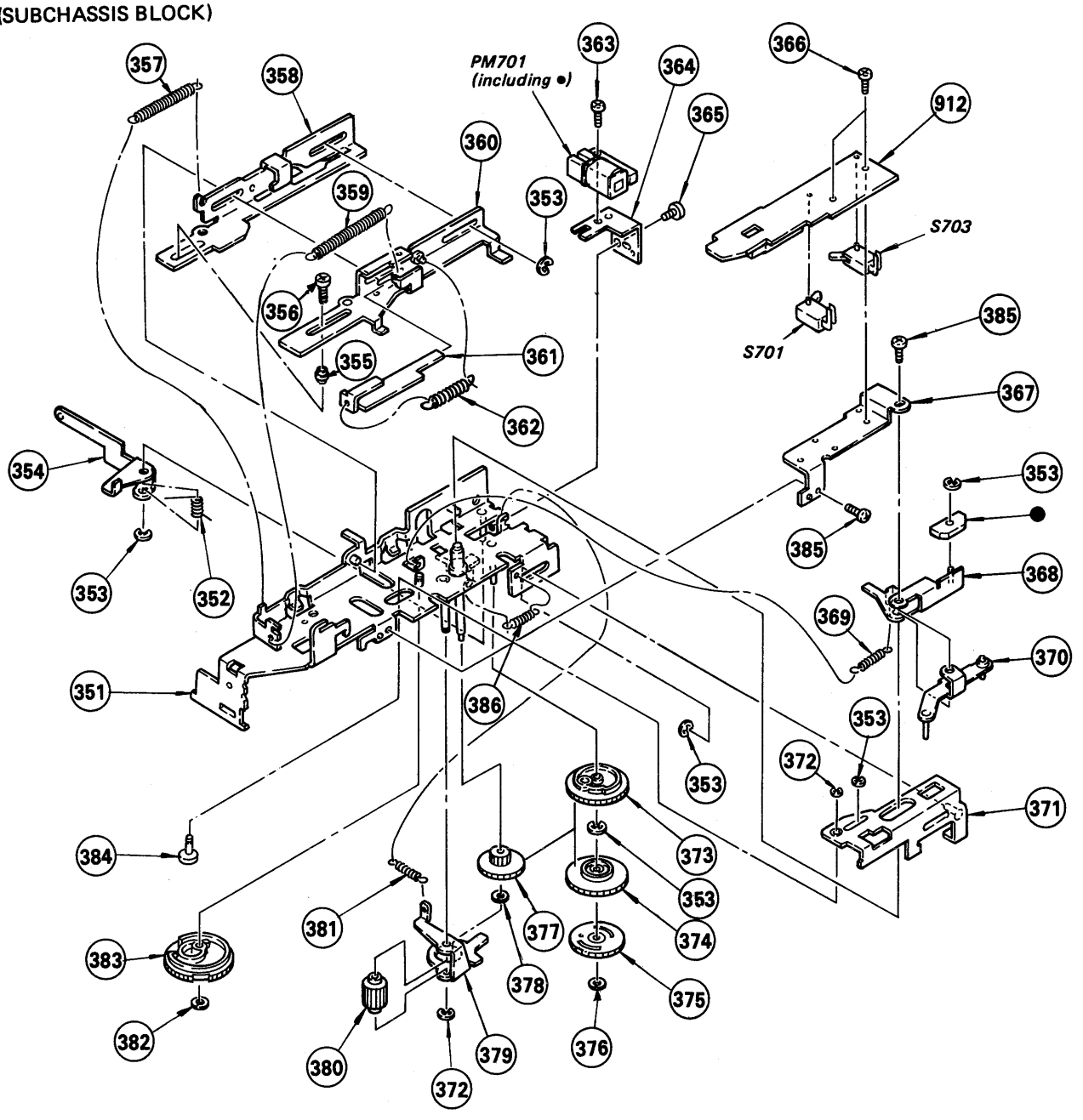
No.	Part No.	Description	Remarks
915	*1-558-009-11	CORD, BACK UP (YEL)	
916	*1-558-010-11	CORD, ACC (RED)	
917	*1-533-185-11	HOLDER, FUSE	
919	1-463-704-11	REMOTE COMMANDER	
CNC501	*1-557-946-11	CORD (WITH JACK), LINE IN/OUT	
CNJ901	*1-557-943-11	CORD (WITH CONNECTOR)	
F901	1-532-508-00	FUSE, GLASS TUBE (8A)	
F902	1-532-414-11	FUSE (1A)	
IC501	8-759-204-34	IC TA7270P	
IC551	8-759-204-35	IC TA7271P	
IC601	8-759-204-35	IC TA7271P	
IC651	8-759-204-34	IC TA7270P	
SPC501	*1-557-945-11	CORD, SPEAKER (GRY/WHT)	
SPC502	*1-557-945-21	CORD, SPEAKER (BLU/WHT)	
SPC503	*1-557-945-31	CORD, SPEAKER (GRY/RED)	
SPC504	*1-557-945-41	CORD, SPEAKER (BLU/RED)	

TRANSPORT MECHANISM



No.	Part No.	Description	Remarks
301	3-596-584-01	HOUSING, CASSETTE	
302	3-831-441-11	CUSHION, CH	
303	3-596-581-01	ARM ASSY, HOUSING	
304	3-596-565-01	REVERSE (SPG)	
305	3-596-563-01	ROD, OVER CENTER	
306	7-624-118-01	RING, RETAINING E-2.5	
307	*3-596-564-01	PLATE, CENTER, OVER	
308	3-596-561-01	ROLLER, H/A	
309	3-596-585-01	CATCHER	
310	*3-596-562-01	BRACKET	
311	7-621-775-00	SCREW +B 2.6X3	
312	3-596-579-01	STUD, SPECIAL	

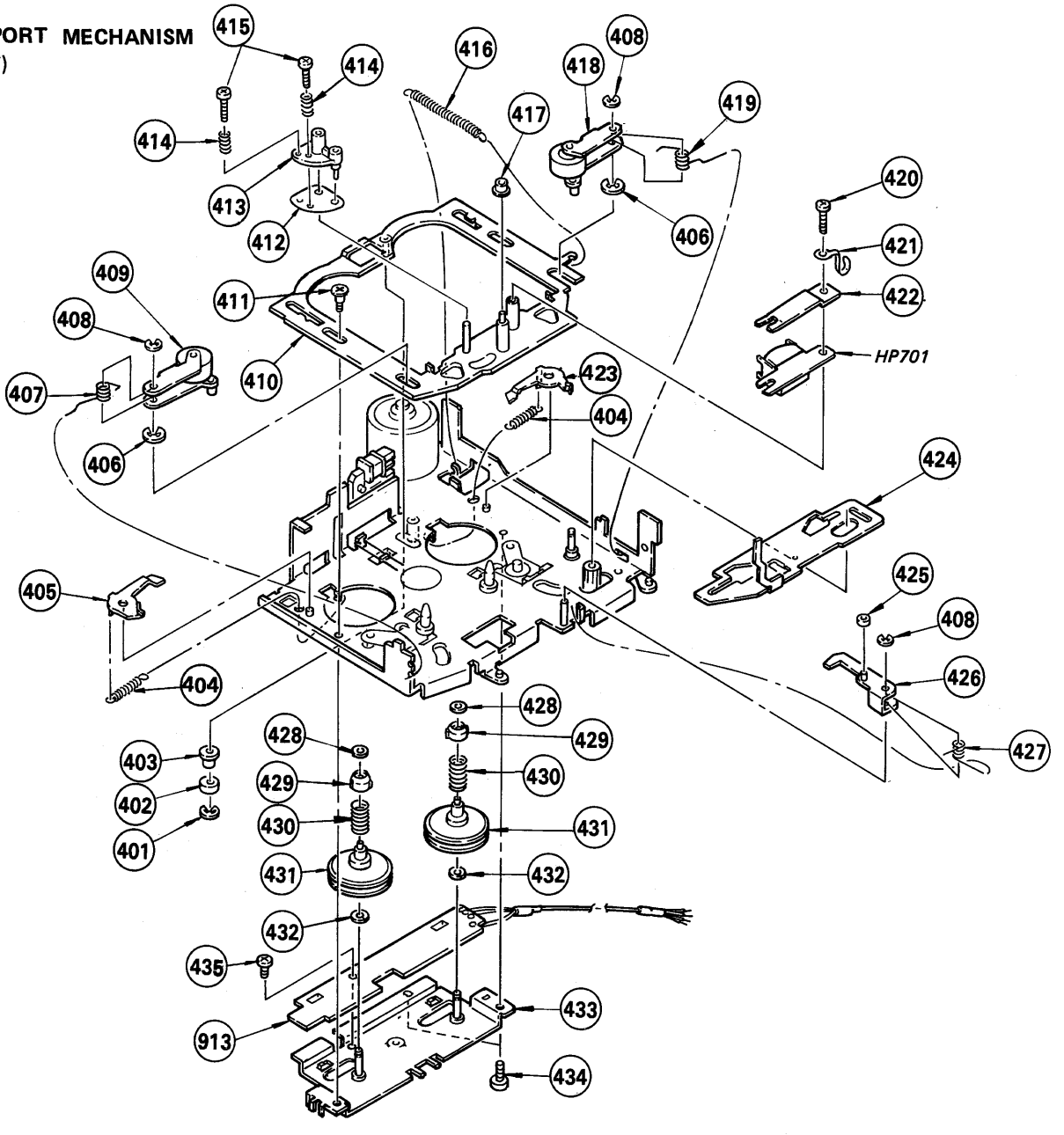
TRANSPORT MECHANISM
(SUBCHASSIS BLOCK)



No.	Part No.	Description	Remarks
351	*3-596-547-01	CHASSIS ASSY, SUB	
352	3-596-557-01	SPRING, TRIGGER PLATE	
353	7-624-102-04	RING, RETAINING E-1.5	
354	3-596-556-01	PLATE, TRIGGER	
355	3-596-568-01	SPACER	
356	7-621-772-20	SCREW +B 2X5	
357	3-596-567-01	SPRING, EJ PLATE	
358	*3-596-566-01	PLATE, EJ	
359	3-596-570-01	SPRING, RESET PLATE	
360	*3-596-569-01	PLATE (S), RESET	
361	*3-596-571-01	PLATE, SLIDE	
362	3-596-572-01	SPRING, SLIDE PLATE	
363	7-627-554-68	SCREW, PRECISION +P 2X5.5 TYPE1	
364	*3-596-578-01	BRACKET (B), SOLENOID	
365	7-621-775-00	SCREW +B 2.6X3	
366	3-596-586-01	SCREW (M1.7X7)	
367	*3-596-574-01	ARM ASSY, SELECT	
368	*3-596-575-01	ARM ASSY, CHIP	
369	3-596-576-01	SPRING, CHIP ARM	
370	*3-596-577-01	BRACKET, SWITCH	

No.	Part No.	Description	Remarks
371	*3-596-573-01	PLATE ASSY, POWER	
372	7-624-101-01	RING, RETAINING E-1.2	
373	3-596-548-01	GEAR ASSY, EJ	
374	3-596-549-01	GEAR (A)	
375	3-596-550-01	GEAR ASSY, RVS	
376	3-570-615-00	POLY-WASHER (DIA.1.2)	
377	3-596-552-01	GEAR (B)	
378	3-701-437-21	WASHER	
379	3-596-551-01	TRIGGER, RVS	
380	3-596-553-01	GEAR (C)	
381	3-596-554-01	SPRING, RVS TRIGGER	
382	3-701-436-21	WASHER, POLYEHTHYLENE	
383	3-596-555-01	GEAR, MODE	
384	3-596-558-01	ROLLER, MODE	
385	7-621-772-00	SCREW +B 2X3	
386	3-596-559-01	SPRING, STARTER	
912	*1-615-527-11	PC BOARD, HEAD	
PM701	1-454-398-11	SOLENOID, PLUNGER	
S702	1-570-249-11	SWITCH, LEAF	
S703	1-570-250-11	SWITCH, LEAF	

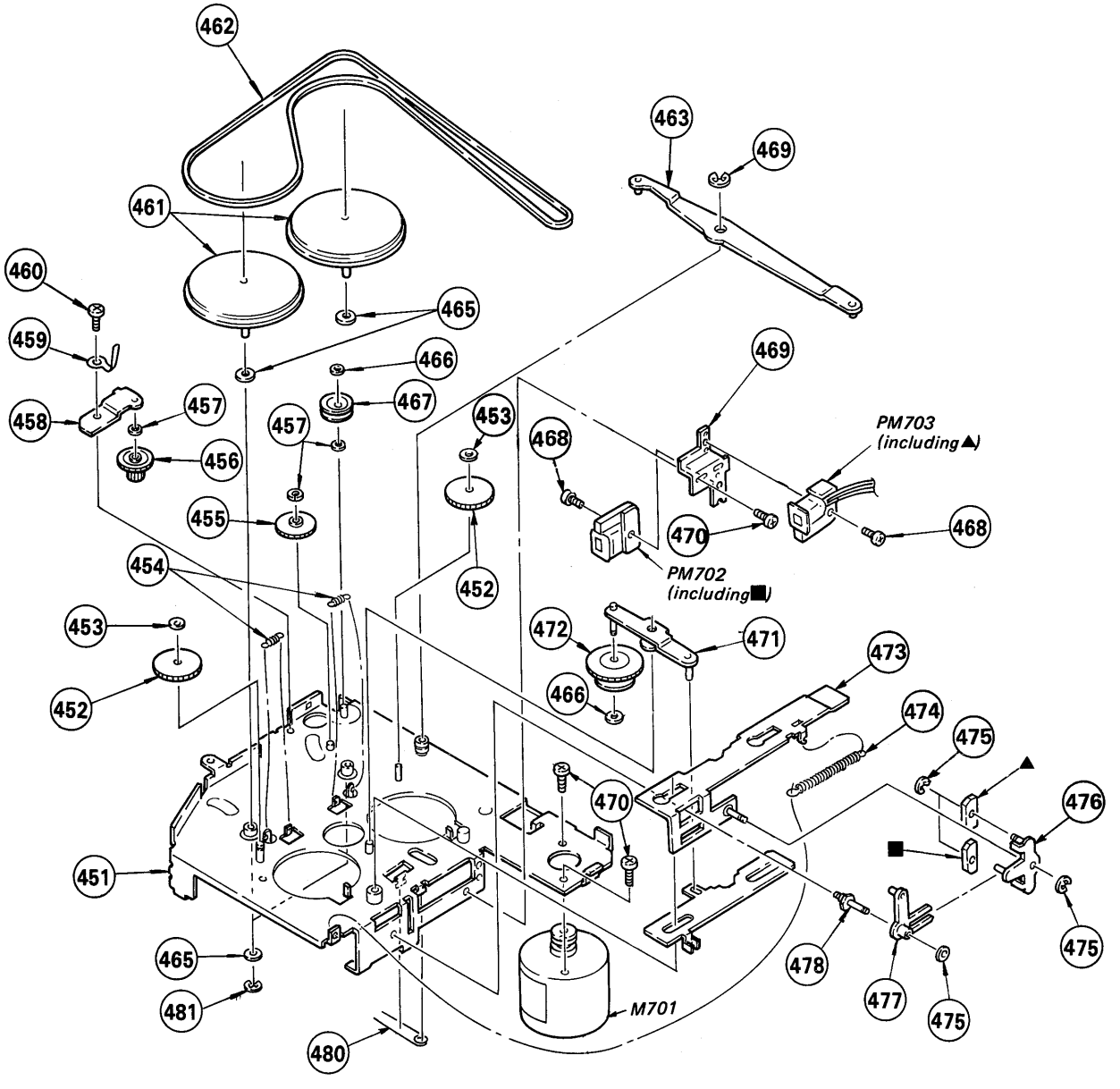
TRANSPORT MECHANISM
(FRONT)



No.	Part No.	Description	Remarks
401	7-624-101-01	RING, RETAINING E-1.2	
402	3-596-512-01	ROLLER (B), H/P	
403	3-596-511-01	ROLLER (A), H/P	
404	3-596-505-01	SPRING, BRAKE PLATE	
405	*3-596-503-01	PLATE (R), BRAKE	
406	7-624-106-04	RING, RETAINING E-3	
407	3-596-524-01	SPRING, P.R ARM (R)	
408	7-624-102-04	RING, RETAINING E-1.5	
409	3-596-523-01	ARM (R) ASSY, P.R	
410	3-596-507-01	PLATE ASSY, HEAD	
411	3-596-513-01	SCREW	
412	3-596-516-01	SEAM, ADJUSTOR	
413	*3-596-517-01	ARM, AZIMUTH	
414	3-596-518-01	LOCK (SPG), AZIMUTH	
415	3-596-519-01	SCREW, AZIMUTH	
416	3-596-514-01	SPRING, H/P	
417	3-596-515-01	ROLLER (C), H/P	
418	3-596-521-01	ARM (F) ASSY, P.R	

No.	Part No.	Description	Remarks
419	3-596-522-01	SPRING, P.R ARM (F)	
420	7-621-772-10	SCREW +B 2X4	
421	*3-493-875-00	HOLDER, WIRE	
422	3-596-520-01	SPRING, AZIMUTH PLATE	
423	*3-596-502-01	PLATE (F), BRAKE	
424	*3-596-506-01	PLATE, RVS	
425	3-596-510-01	ROLLER, TIMING/A	
426	*3-596-508-01	ARM ASSY, TIMING	
427	3-596-509-01	SPRING, TIMING ARM	
428	3-701-436-11	WASHER, 1.6	
429	3-596-545-01	SCREWDRIVER, REEL	
430	3-596-544-01	SPRING, REEL BUSHING	
431	3-596-543-01	BUSHING ASSY (PH), REEL	
432	3-701-437-11	WASHER	
433	*3-596-541-01	BRACKET ASSY, REEL TABLE	
434	7-621-775-00	SCREW +B 2.6X3	
435	7-621-772-00	SCREW +B 2X3	
913	3-596-542-01	PWB ASSY, SWITCH	
HP701	1-543-248-11	HEAD	

TRANSPORT MECHANISM
(REAR)



No.	Part No.	Description	Remarks
451	*3-596-504-01	CHASSIS ASSY, MAIN	
452	3-596-526-01	GEAR, IDLER	
453	3-570-615-00	POLY-WASHER (DIA.1.2)	
454	3-596-530-01	SPRING, IDLER	
455	3-596-527-01	GEAR, DIA.15.2	
456	3-596-528-01	GEAR, INPUT	
457	3-701-437-11	WASHER	
458	*3-596-529-01	GUIDE, SHAFT, GEAR	
459	7-623-507-01	LUG, 2.6	
460	7-621-775-00	SCREW +B 2.6X3	
461	3-596-546-01	FLYWHEEL ASSY	
462	3-596-582-01	BELT	
463	*3-596-538-01	ARM ASSY, POWER	
464	7-624-106-04	RING, RETAINING E-3	
465	3-590-770-31	POLY-SLIDER (A)	
466	3-701-436-21	WASHER, POLYEHTHYLENE	
467	3-596-531-01	PULLEY ASSY, TENSION	

No.	Part No.	Description	Remarks
468	7-627-554-68	SCREW, PRECISION +P 2X5.5 TYPE1	
469	*3-596-580-01	BRACKET (A), SOLENOID	
470	7-621-772-00	SCREW +B 2X3	
471	*3-596-539-01	ARM ASSY, FF	
472	3-596-540-01	GEAR ASSY, FF	
473	*3-596-533-01	PLATE ASSY, MODE	
474	3-596-535-01	SPRING, MODE PLATE	
475	7-624-102-04	RING, RETAINING E-1.5	
476	*3-596-537-01	CRANK ASSY, T	
477	3-596-536-01	CRANK, FF	
478	*3-596-534-01	SHAFT, FF CRANK	
479	*3-596-532-01	PLATE, FF	
480	3-596-525-01	ARM (SPG), FF	
481	3-590-768-00	RING (A), E	
M701	3-596-501-01	MOTOR ASSY	
PM702	1-454-398-11	SOLENOID, PLUNGER	
PM703	1-454-398-11	SOLENOID, PLUNGER	

SECTION 6
ELECTRICAL PARTS LIST

NOTE:
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
901	*A-3260-375-A	MOUNTED PCB, MOTHER			
902	*A-3266-302-A	MOUNTED PCB, TUNER			
903	*A-3270-234-A *	MOUNTED PCB, AUDIO (A)			
904	*A-3270-235-A	MOUNTED PCB, AUDIO (B)			
905	*A-3270-329-A	MOUNTED PCB, POWER AMPLIFIER			
906	*A-3279-548-A	MOUNTED PCB,SYSTEM CONTROL,MD			
907	*1-615-528-11	PC BOARD, DISPLAY			
908	*1-615-583-11	PC BOARD, TRANSLATION			
909	*1-615-535-11	PC BOARD, VOLUME (A)			
910	*1-615-536-11	PC BOARD, VOLUME (B)			
911	*1-615-584-11	PC BOARD, CONNECTOR			
912	*1-615-527-11	PC BOARD, HEAD			
913	3-596-542-01	PWB ASSY, SWITCH			
914	1-555-475-21	CORD, GND (BLK)			
915	*1-558-009-11	CORD, BACK UP (YEL)			
916	*1-558-010-11	CORD, ACC (RED)			
917	*1-533-185-11	HOLDER, FUSE			
918	*1-618-011-11	PC BOARD, REMOTE CONTROL			
919	1-463-704-11	REMOTE COMMANDER			
BZ201	1-529-014-00	BUZZER, PIEZOELECTRIC			
C2	1-162-306-31	CERAMIC	0.01MF	30%	16V
C3	1-162-306-31	CERAMIC	0.01MF	30%	16V
C4	1-162-306-31	CERAMIC	0.01MF	30%	16V
C5	1-162-306-31	CERAMIC	0.01MF	30%	16V
C6	1-162-306-31	CERAMIC	0.01MF	30%	16V
C7	1-123-306-00	ELECT	47MF	20%	10V
C8	1-124-245-00	ELECT	4.7MF	20%	16V
C9	1-162-306-31	CERAMIC	0.01MF	30%	16V
C10	1-124-249-00	ELECT	0.1MF	20%	50V
C11	1-162-211-31	CERAMIC	33PF	5%	50V
C12	1-124-257-00	ELECT	2.2MF	20%	35V
C13	1-162-306-31	CERAMIC	0.01MF	30%	16V
C14	1-162-211-31	CERAMIC	33PF	5%	50V
C15	1-162-211-31	CERAMIC	33PF	5%	50V
C16	1-124-245-00	ELECT	4.7MF	20%	16V
C17	1-123-306-00	ELECT	47MF	20%	10V
C18	1-162-306-31	CERAMIC	0.01MF	30%	16V
C19	1-162-306-31	CERAMIC	0.01MF	30%	16V
C20	1-101-005-00	CERAMIC	0.022MF		50V
C101	1-162-207-31	CERAMIC	22PF	5%	50V
C102	1-124-222-00	ELECT	22MF	20%	6.3V
C103	1-162-292-31	CERAMIC	680PF	10%	50V
C104	1-136-159-00	FILM	0.033MF	5%	50V
C105	1-124-229-00	ELECT	33MF	20%	10V
C106	1-124-255-00	ELECT	1MF	20%	50V
C107	1-124-255-00	ELECT	1MF	20%	50V
C108	1-124-258-00	ELECT	3.3MF	20%	25V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C109	1-136-159-00	FILM	0.033MF	5%	50V
C110	1-136-141-00	FILM	0.001MF	5%	50V
C111	1-136-157-00	FILM	0.022MF	5%	50V
C112	1-136-157-00	FILM	0.022MF	5%	50V
C113	1-124-255-00	ELECT	1MF	20%	50V
C114	1-124-229-00	ELECT	33MF	20%	10V
C115	1-161-055-00	CERAMIC	0.022MF	10%	50V
C116	1-124-255-00	ELECT	1MF	20%	50V
C117	1-136-161-00	FILM	0.047MF	5%	50V
C119	1-124-233-00	ELECT	10MF	20%	10V
C120	1-162-305-31	CERAMIC	0.0068MF	30%	16V
C121	1-162-219-31	CERAMIC	68PF	5%	50V
C122	1-161-040-00	CERAMIC	0.0012MF	10%	25V
C123	1-162-292-31	CERAMIC	680PF	10%	50V
C124	1-162-292-31	CERAMIC	680PF	10%	50V
C125	1-162-303-31	CERAMIC	0.0033MF	30%	16V
C126	1-136-161-00	FILM	0.047MF	5%	50V
C127	1-162-287-31	CERAMIC	270PF	10%	50V
C128	1-162-287-31	CERAMIC	270PF	10%	50V
C129	1-162-287-31	CERAMIC	270PF	10%	50V
C130	1-162-287-31	CERAMIC	270PF	10%	50V
C131	1-162-306-31	CERAMIC	0.01MF	30%	16V
C132	1-162-306-31	CERAMIC	0.01MF	30%	16V
C133	1-162-302-31	CERAMIC	0.0022MF	30%	16V
C134	1-124-222-00	ELECT	22MF	20%	6.3V
C135	1-124-245-00	ELECT	4.7MF	20%	16V
C201	1-162-306-31	CERAMIC	0.01MF	30%	16V
C202	1-162-306-31	CERAMIC	0.01MF	30%	16V
C203	1-162-306-31(US, Canadian)	CERAMIC	0.01MF	30%	16V
C204	1-162-306-31(US, Canadian)	CERAMIC	0.01MF	30%	16V
C205	1-136-161-00	FILM	0.047MF	5%	50V
C206	1-124-257-00	ELECT	2.2MF	20%	35V
C207	1-161-013-00	CERAMIC	0.01MF	10%	25V
C208	1-124-257-00	ELECT	2.2MF	20%	35V
C209	1-124-257-00	ELECT	2.2MF	20%	35V
C210	1-136-159-00	FILM	0.033MF	5%	50V
C211	1-162-199-31	CERAMIC	10PF	5%	50V
C212	1-162-198-31	CERAMIC	8.2PF	10%	50V
C213	1-162-306-31	CERAMIC	0.01MF	30%	16V
C214	1-124-442-00	ELECT	330MF	20%	6.3V
C215	1-136-157-00	FILM	0.022MF	5%	50V
C216	1-124-253-00	ELECT	0.47MF	20%	50V
C217	1-124-253-00	ELECT	0.47MF	20%	50V
C218	1-124-255-00	ELECT	1MF	20%	50V
C219	1-124-257-00	ELECT	2.2MF	20%	35V
C220	1-124-257-00	ELECT	2.2MF	20%	35V
C221	1-124-221-61	ELECT	10MF	20%	6.3V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C222	1-124-233-00	ELECT	10MF	20%	10V
C223	1-124-255-00	ELECT	1MF	20%	50V
C224	1-124-584-00	ELECT	100MF	20%	10V
C225	1-124-236-00	ELECT	47MF	20%	10V
C226	1-123-333-00	ELECT	100MF	20%	16V
C227	1-124-584-00	ELECT	100MF	20%	10V
C231	1-124-225-00	ELECT	100MF	20%	6.3V
C232	1-124-255-00	ELECT	1MF	20%	50V
C233	1-124-245-00	ELECT	4.7MF	20%	16V
C234	1-124-584-00	ELECT	100MF	20%	10V
C235	1-123-333-00	ELECT	100MF	20%	16V
C236	1-124-236-00	ELECT	47MF	20%	16V
C237	1-161-494-00	CERAMIC	0.022MF	30%	25V
C301	1-130-468-00	MYLAR	560PF	5%	50V
C302	1-124-234-00	ELECT	10MF	20%	6.3V
C303	1-124-584-00	ELECT	100MF	20%	10V
C304	1-136-159-00	FILM	0.033MF	5%	50V
C305	1-136-161-00	FILM	0.047MF	5%	50V
C306	1-124-255-00	ELECT	1MF	20%	50V
C307	1-124-255-00	ELECT	1MF	20%	50V
C308	1-124-233-00	ELECT	10MF	20%	6.3V
C309	1-162-282-31	CERAMIC	100PF	10%	50V
C310	1-124-255-00	ELECT	1MF	20%	50V
C311	1-130-482-00	MYLAR	0.0082MF	5%	50V
C312	1-124-255-00	ELECT	1MF	20%	50V
C313	1-131-344-00	TANTALUM	0.33MF	10%	35V
C315	1-124-236-00	ELECT	47MF	20%	10V
C316	1-124-236-00	ELECT	47MF	20%	10V
C317	1-124-252-00	ELECT	0.33MF	20%	50V
C318	1-124-233-00	ELECT	10MF	20%	6.3V
C319	1-102-106-00	CERAMIC	100PF	10%	50V
C320	1-124-233-00	ELECT	10MF	20%	6.3V
C321	1-102-106-00	CERAMIC	100PF	10%	50V
C351	1-124-255-00	ELECT	1MF	20%	50V
C352	1-136-153-00	FILM	0.01MF	5%	50V
C353	1-124-252-00	ELECT	0.33MF	20%	50V
C354	1-136-153-00	FILM	0.01MF	5%	50V
C355	1-124-252-00	ELECT	0.33MF	20%	50V
C356	1-124-249-00	ELECT	0.1MF	20%	50V
C357	1-124-225-00	ELECT	100MF	20%	6.3V
C358	1-124-255-00	ELECT	1MF	20%	50V
C359	1-124-255-00	ELECT	1MF	20%	50V
C401	1-130-469-00	MYLAR	680PF	5%	50V
C402	1-124-221-61	ELECT	10MF	20%	6.3V
C403	1-124-584-00	ELECT	100MF	20%	10V
C404	1-136-159-00	FILM	0.033MF	5%	50V
C405	1-136-161-00	FILM	0.047MF	5%	50V
C407	1-124-255-00	ELECT	1MF	20%	50V
C408	1-124-221-61	ELECT	10MF	20%	6.3V
C409	1-102-106-00	CERAMIC	100PF	10%	50V
C410	1-124-255-00	ELECT	1MF	20%	50V
C411	1-130-482-00	MYLAR	0.0082MF	5%	50V
C412	1-124-255-00	ELECT	1MF	20%	50V
C413	1-131-344-00	TANTALUM	0.33MF	10%	35V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C415	1-124-225-00	ELECT	100MF	20%	6.3V
C416	1-124-236-00	ELECT	47MF	20%	10V
C417	1-124-224-00	ELECT	47MF	20%	6.3V
C418	1-124-233-00	ELECT	10MF	20%	6.3V
C419	1-102-106-00	CERAMIC	100PF	10%	50V
C420	1-124-233-00	ELECT	10MF	20%	6.3V
C421	1-102-106-00	CERAMIC	100PF	10%	50V
C451	1-124-255-00	ELECT	1MF	20%	50V
C452	1-136-153-00	FILM	0.01MF	5%	50V
C453	1-124-252-00	ELECT	0.33MF	20%	50V
C454	1-136-153-00	FILM	0.01MF	5%	50V
C455	1-124-252-00	ELECT	0.33MF	20%	50V
C456	1-124-249-00	ELECT	0.1MF	20%	50V
C457	1-124-222-00	ELECT	22MF	20%	6.3V
C458	1-124-255-00	ELECT	1MF	20%	50V
C501	1-102-116-00	CERAMIC	680PF	10%	50V
C502	1-136-157-00	FILM	0.022MF	5%	50V
C503	1-124-584-00	ELECT	100MF	20%	10V
C504	1-124-225-00	ELECT	100MF	20%	6.3V
C505	1-124-255-00	ELECT	1MF	20%	50V
C506	1-124-255-00	ELECT	1MF	20%	50V
C507	1-124-584-00	ELECT	100MF	20%	10V
C508	1-124-225-00	ELECT	100MF	20%	6.3V
C509	1-124-584-00	ELECT	100MF	20%	10V
C510	1-136-167-00	FILM	0.15MF	5%	50V
C511	1-136-167-00	FILM	0.15MF	5%	50V
C512	1-123-321-00	ELECT	220MF	20%	16V
C551	1-102-116-00	CERAMIC	680PF	10%	50V
C552	1-136-157-00	FILM	0.022MF	5%	50V
C553	1-124-584-00	ELECT	100MF	20%	10V
C554	1-124-225-00	ELECT	100MF	20%	6.3V
C555	1-124-255-00	ELECT	1MF	20%	50V
C556	1-124-255-00	ELECT	1MF	20%	50V
C557	1-124-584-00	ELECT	100MF	20%	10V
C558	1-124-225-00	ELECT	100MF	20%	6.3V
C559	1-124-584-00	ELECT	100MF	20%	10V
C560	1-136-167-00	FILM	0.15MF	5%	50V
C561	1-136-167-00	FILM	0.15MF	5%	50V
C562	1-123-321-00	ELECT	220MF	20%	16V
C601	1-102-116-00	CERAMIC	680PF	10%	50V
C602	1-136-157-00	FILM	0.022MF	5%	50V
C603	1-124-584-00	ELECT	100MF	20%	10V
C604	1-124-225-00	ELECT	100MF	20%	6.3V
C605	1-124-255-00	ELECT	1MF	20%	50V
C606	1-124-255-00	ELECT	1MF	20%	50V
C607	1-124-584-00	ELECT	100MF	20%	10V
C608	1-124-225-00	ELECT	100MF	20%	6.3V
C609	1-124-584-00	ELECT	100MF	20%	10V
C610	1-136-167-00	FILM	0.15MF	5%	50V
C611	1-136-167-00	FILM	0.15MF	5%	50V
C651	1-102-116-00	CERAMIC	680PF	10%	50V
C652	1-136-157-00	FILM	0.022MF	5%	50V
C653	1-124-584-00	ELECT	100MF	20%	10V
C654	1-124-225-00	ELECT	100MF	20%	6.3V
C655	1-124-255-00	ELECT	1MF	20%	50V
C656	1-124-255-00	ELECT	1MF	20%	50V
C657	1-124-584-00	ELECT	100MF	20%	10V

REVISED

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C658	1-124-225-00	ELECT	100MF	20%	6.3V
C659	1-124-584-00	ELECT	100MF	20%	10V
C660	1-136-167-00	FILM	0.15MF	5%	50V
C661	1-136-167-00	FILM	0.15MF	5%	50V
C662	1-124-234-00	ELECT	22MF	20%	10V
C701	1-124-222-00	ELECT	22MF	20%	6.3V
C702	1-124-255-00	ELECT	1MF	20%	50V
C703	1-130-480-00	MYLAR	0.0056MF	5%	50V
C704	1-162-306-31	CERAMIC	0.01MF	30%	16V
C705	1-124-249-00	ELECT	0.1MF	20%	50V
C706	1-162-306-31	CERAMIC	0.01MF	30%	16V
C707	1-124-249-00	ELECT	0.1MF	20%	50V
C708	1-162-306-31	CERAMIC	0.01MF	30%	16V
C709	1-162-306-31	CERAMIC	0.01MF	30%	16V
C710	1-124-119-00	ELECT	330MF	20%	16V
C711	1-124-233-00	ELECT	10MF	20%	16V
C712	1-124-224-00	ELECT	47MF	20%	6.3V
C713	1-124-222-00	ELECT	22MF	20%	6.3V
C801	1-124-233-00	ELECT	10MF	20%	10V
C802	1-124-245-00	ELECT	4.7MF	20%	16V
C803	1-124-245-00	ELECT	4.7MF	20%	16V
C901	1-124-251-00	ELECT	0.22MF	20%	50V
C902	1-124-251-00	ELECT	0.22MF	20%	50V
C903	1-124-251-00	ELECT	0.22MF	20%	50V
C904	1-124-222-00	ELECT	22MF	20%	6.3V
C905	1-123-566-00	ELECT	2200MF	20%	16V
C906	1-123-333-00	ELECT	100MF	20%	16V
C907	1-123-566-00	ELECT	2200MF	20%	16V
CF1	1-527-344-91	FILTER, CERAMIC			
CF2	1-527-344-91	FILTER, CERAMIC			
CF3	1-527-344-91	FILTER, CERAMIC			
CNC501*	1-557-946-11	CORD (WITH JACK), LINE IN/OUT			
CNJ101	1-557-942-11	CORD (WITH CONNECTOR), ANTTENA			
CNJ311*	1-561-976-00	CONNECTOR (F) 8P			
CNJ352*	1-562-847-11	SOCKET, CONNECTOR 4P			
CNJ901*	1-557-943-11	CORD (WITH CONNECTOR)			
CNP1 *	1-564-983-11	PIN CONNECTOR, B-B 8P			
CNP201*	1-564-713-11	PIN, CONNECTOR 11P			
CNP202*	1-564-343-00	PIN, CONNECTOR 9P			
CNP203*	1-560-468-00	PIN, CONNECTOR 5P			
CNP204*	1-560-466-00	PIN, CONNECTOR 3P			
CNP301*	1-560-882-11	CONNECTOR (M) 4P			
CNP302*	1-560-884-00	CONNECTOR (M) 8P			
CNP311*	1-560-500-00	PIN, CONNECTOR 10P			
CNP700*	1-560-459-00	PIN, CONNECTOR 3P			
CNP701*	1-564-343-00	PIN, CONNECTOR 9P			
CNP901*	1-564-937-11	CONNECTOR			
CNP902*	1-560-591-00	PIN, CONNECTOR 7P			
CNP903*	1-560-468-00	PIN, CONNECTOR 5P			
D1	8-719-901-33	DIODE 1SS133			
D101	8-719-100-73	DIODE RD16E-B1			
D102	8-719-100-73	DIODE RD16E-B1			
D104	8-719-901-33	DIODE 1SS133			
D105	8-719-901-33	DIODE 1SS133			
D106	8-719-901-33	DIODE 1SS133			
D108	8-719-901-33	DIODE 1SS133			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D109	8-719-901-33	DIODE 1SS133
D201	8-719-901-33	DIODE 1SS133
D202	8-719-901-33	DIODE 1SS133
D203	8-719-901-33	DIODE 1SS133
D204	8-719-901-33	DIODE 1SS133
D205	8-719-901-33	DIODE 1SS133
D206	8-719-901-33	DIODE 1SS133
D207	8-719-901-33	DIODE 1SS133
D208	8-719-901-33	DIODE 1SS133
D209	8-719-901-33	DIODE 1SS133
D210	8-719-901-33	DIODE 1SS133
D211	8-719-901-33	DIODE 1SS133
D212	8-719-901-33	DIODE 1SS133
D213	8-719-901-33	DIODE 1SS133
D214	8-719-901-33	DIODE 1SS133
D215	8-719-901-33	DIODE 1SS133
D216	8-719-901-33	DIODE 1SS133
D217	8-719-901-33	DIODE 1SS133
D218	8-719-901-33	DIODE 1SS133
D219	8-719-100-56	DIODE RD10E-B1
D220	8-719-100-37	DIODE RD6.2E-B1
D222	8-719-100-57	DIODE RD10E-B2
D223	8-719-100-26	DIODE RD4.7E-B1
D224	8-719-901-33	DIODE 1SS133
D228	8-719-901-33	DIODE 1SS133
D230	8-719-911-19	DIODE 1SS119
D231	8-719-911-19	DIODE 1SS119
D232	8-719-100-26	DIODE RD4.7B1
D301	8-719-901-33	DIODE 1SS133
D351	8-719-100-37	DIODE RD6.2E-B1
D401	8-719-901-33	DIODE 1SS133
D651	8-719-901-33	DIODE 1SS133
D652	8-719-901-33	DIODE 1SS133
D653	8-719-901-33	DIODE 1SS133
D701	8-719-901-33	DIODE 1SS133
D702	8-719-100-47	DIODE RD8.2E-B1
D705	8-719-901-33	DIODE 1SS133
D707	8-719-200-02	DIODE 10E-2
D708	8-719-200-02	DIODE 10E-2
D709	8-719-901-33	DIODE 1SS133
D710	8-719-901-33	DIODE 1SS133
D711	8-719-901-33	DIODE 1SS133
D712	8-719-901-33	DIODE 1SS133
D713	8-719-901-33	DIODE 1SS133
D714	8-719-901-33	DIODE 1SS133
D715	8-719-100-36	DIODE RD5.6E-B3
D716	8-719-901-33	DIODE 1SS133
D720	8-719-901-33	DIODE 1SS133
D801	8-719-920-39	DIODE AY3422K
D802	8-719-920-39	DIODE AY3422K
D803	8-719-920-39	DIODE AY3422K
D804	8-719-920-39	DIODE AY3422K
D805	8-719-920-39	DIODE AY3422K
D806	8-719-920-39	DIODE AY3422K
D807	8-719-920-28	DIODE CL-10PG
D808	8-719-920-26	DIODE CL-10D
D809	8-719-920-26	DIODE CL-10D
D810	8-719-920-26	DIODE CL-10D
D811	8-719-920-26	DIODE CL-10D
D812	8-719-920-26	DIODE CL-10D

REVISED

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D813	8-719-920-26	DIODE CL-10D
D814	8-719-920-26	DIODE CL-10D
D815	8-719-920-26	DIODE CL-10D
D816	8-719-920-26	DIODE CL-10D
D817	8-719-920-26	DIODE CL-10D
D818	8-719-920-26	DIODE CL-10D
D819	8-719-920-26	DIODE CL-10D
D820	8-719-920-26	DIODE CL-10D
D821	8-719-920-26	DIODE CL-10D
D822	8-719-920-26	DIODE CL-10D
D823	8-719-920-26	DIODE CL-10D
D824	8-719-920-28	DIODE CL-10PG
D825	8-719-920-27	DIODE CL-10R
D826	8-719-920-27	DIODE CL-10R
D827	8-719-920-26	DIODE CL-10D
D828	8-719-920-26	DIODE CL-10D
D829	8-719-920-26	DIODE CL-10D
D830	8-719-920-27	DIODE CL-10R
D831	8-719-920-27	DIODE CL-10R
D832	8-719-920-26	DIODE CL-10D
D833	8-719-920-26	DIODE CL-10D
D834	8-719-920-26	DIODE CL-10D
D901	8-719-911-55	DIODE U05G
D902	8-719-911-55	DIODE U05G
D903	8-719-100-73	DIODE RD16E-B1
F901	1-532-508-00	FUSE, GLASS TUBE (8A)
F902	1-532-360-XX	FUSE (1A)
FE1	1-463-418-00	(US, Canadian).....FRONT END (FM)
FE1	1-463-460-00	(E, AEP).....FRONT END (FM)
FE101	1-463-605-11	TUNER UNIT, AM
HP701	1-543-248-11	HEAD
IC1	8-759-811-40	IC LA1140
IC101	8-759-801-93	IC LA3373
IC102	8-759-801-94	IC LA2113
IC201	8-759-103-20	(US, E, Canadian)....IC UPD1708G-547-00
IC201	8-759-105-87	(AEP).....IC UPD1708G-604-00
IC202	8-759-905-47	IC BA338
IC301	8-759-800-36	IC LA3160
IC302	8-759-100-96	IC UPC4558G2
IC303	8-759-913-59	IC LM1036N
IC304	8-759-100-96	IC UPC4558G2
IC351	8-759-908-08	IC CX20085
IC501	8-759-204-34	IC TA7270P
IC551	8-759-204-35	IC TA7271P
IC601	8-759-204-35	IC TA7271P
IC651	8-759-204-34	IC TA7270P
IC701	8-759-204-05	IC TC9310N-065
IC702	8-759-240-69	IC TC4069UBP
IC703	8-759-645-16	IC M54516P
IC801	8-759-915-49	IC IR2E27
L1	1-408-559-00	MICRO INDUCTOR 4.7UH
L101	1-408-551-00	MICRO INDUCTOR 1UH
L102	1-408-559-00	MICRO INDUCTOR 4.7UH
L103	1-408-567-00	MICRO INDUCTOR 22UH

ELECTRICAL PARTS

Ref.No.	Part No.	Description
L104	1-408-559-00	MICRO INDUCTOR 4.7UH
L701	1-408-111-00	MICRO INDUCTOR 3.3UH
L901	1-421-369-00	COIL, CHOKE
L902	1-459-123-00	COIL,DUST CORE(PAC)
M701	3-596-501-01	MOTOR ASSY
ND801	1-807-190-11	DISPLAY PANEL, LIQUID CRYSTAL
PL901	1-518-580-11	LAMP, PILOT
PM701	1-454-398-11	SOLENOID, PLUNGER
PM702	1-454-398-11	SOLENOID, PLUNGER
PM703	1-454-398-11	SOLENOID, PLUNGER
Q1	8-729-606-33	TRANSISTOR 2SC2603F
Q2	8-729-883-92	TRANSISTOR 2SC2839
Q101	8-729-606-33	TRANSISTOR 2SC2603F
Q102	8-729-900-61	TRANSISTOR DTA114ES
Q103	8-729-606-33	TRANSISTOR 2SC2603F
Q104	8-729-606-33	TRANSISTOR 2SC2603F
Q105	8-729-178-54	TRANSISTOR 2SC2785
Q106	8-729-178-54	TRANSISTOR 2SC2785
Q201	8-729-266-82	(US, Canadian)...TRANSISTOR 2SC2668-O
Q202	8-729-606-33	TRANSISTOR 2SC2603F
Q203	8-729-606-33	TRANSISTOR 2SC2603F
Q204	8-729-606-33	TRANSISTOR 2SC2603F
Q205	8-729-606-33	TRANSISTOR 2SC2603F
Q206	8-729-606-33	TRANSISTOR 2SC2603F
Q207	8-729-606-33	TRANSISTOR 2SC2603F
Q208	8-729-606-33	TRANSISTOR 2SC2603F
Q209	8-729-606-33	TRANSISTOR 2SC2603F
Q210	8-729-606-33	TRANSISTOR 2SC2603F
Q211	8-729-606-33	TRANSISTOR 2SC2603F
Q212	8-729-900-36	TRANSISTOR DTC124ES
Q213	8-729-900-36	TRANSISTOR DTC124ES
Q214	8-729-606-33	TRANSISTOR 2SC2603F
Q215	8-729-900-36	TRANSISTOR DTC124ES
Q216	8-729-900-36	TRANSISTOR DTC124ES
Q217	8-729-900-36	TRANSISTOR DTC124ES
Q218	8-729-801-83	TRANSISTOR 2SB1013
Q219	8-729-801-83	TRANSISTOR 2SB1013
Q220	8-729-900-36	TRANSISTOR DTC124ES
Q221	8-729-900-36	TRANSISTOR DTC124ES
Q222	8-729-801-83	TRANSISTOR 2SB1013
Q223	8-729-900-80	TRANSISTOR DTA114ES
Q224	8-729-900-36	TRANSISTOR DTC124ES
Q225	8-729-180-93	TRANSISTOR 2SD809
Q227	8-729-100-13	TRANSISTOR 2SC2001
Q228	8-729-900-36	TRANSISTOR DTC124ES
Q229	8-729-801-83	TRANSISTOR 2SB1013
Q230	8-729-117-54	TRANSISTOR 2SA1175
Q231	8-729-117-54	TRANSISTOR 2SA1175
Q301	8-729-606-33	TRANSISTOR 2SC2603F
Q302	8-729-606-33	TRANSISTOR 2SC2603F
Q303	8-729-606-33	TRANSISTOR 2SC2603F
Q304	8-729-100-13	TRANSISTOR 2SC2001
Q351	8-729-900-36	TRANSISTOR DTC124ES
Q352	8-729-900-61	TRANSISTOR DTA114ES
Q353	8-729-900-36	TRANSISTOR DTC124ES
Q354	8-729-900-36	TRANSISTOR DTC124ES
Q401	8-729-606-33	TRANSISTOR 2SC2603F

ELECTRICAL PARTS

Ref.No.	Part No.	Description
Q601	8-729-900-89	TRANSISTOR DTC144ES
Q651	8-729-900-89	TRANSISTOR DTC144ES
Q652	8-729-900-61	TRANSISTOR DTC114ES
Q701	8-729-988-12	TRANSISTOR 2SA881
Q702	8-729-905-52	TRANSISTOR 2SD1055
Q703	8-729-905-52	TRANSISTOR 2SD1055
Q704	8-729-606-33	TRANSISTOR 2SC2603F
Q705	8-729-900-65	TRANSISTOR DTA744ES
R1	1-247-879-00	CARBON 100K 5% 1/6W
R2	1-247-831-00	CARBON 1K 5% 1/6W
R3	1-247-819-00	CARBON 330 5% 1/6W
R4	1-247-879-00	CARBON 100K 5% 1/6W
R5	1-247-783-00	CARBON 10 5% 1/6W
R6	1-247-867-00	CARBON 33K 5% 1/6W
R8	1-247-855-00	(US, E, Canadian)...CARBON 10K 5% 1/6W
R8	1-247-865-00	(AEP).....CARBON 27K 5% 1/6W
R9	1-247-849-00	CARBON 5.6K 5% 1/6W
R10	1-247-860-00	CARBON 33K 5% 1/6W
R11	1-247-437-00	CARBON 47K 5% 1/6W
R12	1-247-879-00	CARBON 100K 5% 1/6W
R13	1-247-859-00	CARBON 15K 5% 1/6W
R14	1-247-859-00	CARBON 15K 5% 1/6W
R15	1-247-855-00	CARBON 10K 5% 1/6W
R16	1-247-819-00	CARBON 330 5% 1/6W
R17	1-247-827-00	CARBON 680 5% 1/6W
R18	1-247-819-00	CARBON 330 5% 1/6W
R19	1-247-799-00	CARBON 47 5% 1/6W
R20	1-247-815-00	CARBON 220 5% 1/6W
R22	1-247-811-00	CARBON 150 5% 1/6W
R23	1-247-855-00	CARBON 10K 5% 1/6W
R24	1-247-807-00	CARBON 100 5% 1/6W
R101	1-247-889-00	CARBON 270K 5% 1/6W
R102	1-247-823-00	CARBON 470 5% 1/6W
R103	1-247-863-00	CARBON 22K 5% 1/6W
R104	1-247-831-00	CARBON 1K 5% 1/6W
R105	1-247-831-00	CARBON 1K 5% 1/6W
R106	1-247-863-00	CARBON 22K 5% 1/6W
R108	1-247-879-00	CARBON 100K 5% 1/6W
R109	1-247-853-00	CARBON 8.2K 5% 1/6W
R110	1-247-831-00	CARBON 1K 5% 1/6W
R111	1-247-857-00	CARBON 12K 5% 1/6W
R112	1-247-843-00	CARBON 3.3K 5% 1/6W
R113	1-247-843-00	CARBON 3.3K 5% 1/6W
R114	1-247-843-00	CARBON 3.3K 5% 1/6W
R115	1-249-432-11	CARBON 18K 5% 1/6W
R116	1-249-432-11	CARBON 18K 5% 1/6W
R117	1-247-871-00	CARBON 47K 5% 1/6W
R118	1-247-871-00	CARBON 47K 5% 1/6W
R119	1-249-433-11	CARBON 22K 5% 1/6W
R121	1-247-855-00	CARBON 10K 5% 1/6W
R122	1-247-831-00	CARBON 1K 5% 1/6W
R123	1-247-863-00	CARBON 22K 5% 1/6W
R124	1-247-871-00	CARBON 47K 5% 1/6W
R125	1-247-879-00	CARBON 100K 5% 1/6W
R126	1-247-819-00	CARBON 330 5% 1/6W
R127	1-247-855-00	CARBON 10K 5% 1/6W
R128	1-247-855-00	CARBON 10K 5% 1/6W
R129	1-247-879-00	CARBON 100K 5% 1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R130	1-247-845-00	CARBON 3.9K 5% 1/6W
R131	1-247-847-00	CARBON 4.7K 5% 1/6W
R132	1-247-847-00	CARBON 4.7K 5% 1/6W
R133	1-247-847-00	CARBON 4.7K 5% 1/6W
R134	1-247-867-00	CARBON 33K 5% 1/6W
R135	1-249-421-11	CARBON 2.2K 5% 1/6W
R136	1-247-879-00	CARBON 100K 5% 1/6W
R137	1-249-433-11	CARBON 22K 5% 1/6W
R138	1-247-841-00	CARBON 2.7K 5% 1/6W
R139	1-249-421-11	CARBON 2.2K 5% 1/6W
R140	1-249-421-11	CARBON 2.2K 5% 1/6W
R141	1-247-849-00	CARBON 5.6K 5% 1/6W
R142	1-247-851-00	CARBON 6.8K 5% 1/6W
R143	1-247-871-00	CARBON 47K 5% 1/6W
R145	1-247-863-00	CARBON 22K 5% 1/6W
R146	1-247-863-00	CARBON 22K 5% 1/6W
R201	1-247-879-00	(US, Canadian).....CARBON 100K 5% 1/6W
R202	1-247-807-00	(US, Canadian).....CARBON 100 5% 1/6W
R203	1-247-831-00	(US, Canadian).....CARBON 1K 5% 1/6W
R204	1-247-849-00	CARBON 5.6K 5% 1/6W
R205	1-247-849-00	CARBON 5.6K 5% 1/6W
R206	1-247-831-00	CARBON 1K 5% 1/6W
R207	1-247-843-00	CARBON 3.3K 5% 1/6W
R208	1-247-835-00	CARBON 1.5K 5% 1/6W
R209	1-247-843-00	CARBON 3.3K 5% 1/6W
R210	1-247-847-00	CARBON 4.7K 5% 1/6W
R211	1-247-859-00	CARBON 15K 5% 1/6W
R213	1-247-849-00	CARBON 5.6K 5% 1/6W
R214	1-247-879-00	CARBON 100K 5% 1/6W
R215	1-247-867-00	CARBON 33K 5% 1/6W
R216	1-247-867-00	CARBON 33K 5% 1/6W
R217	1-247-891-00	CARBON 330K 5% 1/6W
R218	1-247-891-00	CARBON 330K 5% 1/6W
R219	1-247-891-00	CARBON 330K 5% 1/6W
R220	1-247-891-00	CARBON 330K 5% 1/6W
R221	1-247-864-00	CARBON 24K 5% 1/6W
R222	1-247-847-00	CARBON 4.7K 5% 1/6W
R223	1-247-879-00	CARBON 100K 5% 1/6W
R224	1-247-887-00	CARBON 220K 5% 1/6W
R225	1-247-843-00	CARBON 3.3K 5% 1/6W
R226	1-247-849-00	CARBON 5.6K 5% 1/6W
R227	1-247-879-00	CARBON 100K 5% 1/6W
R228	1-249-433-11	CARBON 22K 5% 1/6W
R229	1-247-817-00	CARBON 270 5% 1/6W
R230	1-247-807-00	CARBON 100 5% 1/6W
R231	1-247-831-00	CARBON 1K 5% 1/6W
R232	1-247-831-00	CARBON 1K 5% 1/6W
R233	1-247-855-00	CARBON 10K 5% 1/6W
R234	1-247-831-00	CARBON 1K 5% 1/6W
R235	1-247-855-00	CARBON 10K 5% 1/6W
R236	1-247-851-00	CARBON 6.8K 5% 1/6W
R237	1-247-851-00	CARBON 6.8K 5% 1/6W
R238	1-247-851-00	CARBON 6.8K 5% 1/6W
R239	1-247-851-00	CARBON 6.8K 5% 1/6W
R240	1-247-851-00	CARBON 6.8K 5% 1/6W
R241	1-247-851-00	CARBON 6.8K 5% 1/6W
R242	1-247-831-00	CARBON 1K 5% 1/6W
R243	1-247-851-00	CARBON 6.8K 5% 1/6W
R244	1-247-851-00	CARBON 6.8K 5% 1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R245	1-247-849-00	CARBON	5.6K	5%	1/6W
R247	1-247-879-00	CARBON	100K	5%	1/6W
R250	1-247-871-00	CARBON	47K	5%	1/6W
R251	1-247-855-00	CARBON	10K	5%	1/6W
R253	1-247-855-00	CARBON	10K	5%	1/6W
R256	1-247-903-00	CARBON	1M	5%	1/6W
R261	1-247-807-00	CARBON	100	5%	1/6W
R270	1-247-879-00	CARBON	100K	5%	1/6W
R271	1-247-879-00	CARBON	100K	5%	1/6W
R272	1-247-879-00	CARBON	100K	5%	1/6W
R301	1-247-801-00	CARBON	56	5%	1/6W
R302	1-247-845-00	CARBON	3.9K	5%	1/6W
R303	1-247-879-00	CARBON	100K	5%	1/6W
R304	1-247-834-00	CARBON	1.3K	5%	1/6W
R305	1-247-835-00	CARBON	1.5K	5%	1/6W
R306	1-247-897-00	CARBON	560K	5%	1/6W
R307	1-247-851-00	CARBON	6.8K	5%	1/6W
R308	1-247-879-00	CARBON	100K	5%	1/6W
R309	1-247-835-00	CARBON	1.5K	5%	1/6W
R310	1-247-855-00	CARBON	10K	5%	1/6W
R311	1-247-857-00	CARBON	12K	5%	1/6W
R312	1-247-835-00	CARBON	1.5K	5%	1/6W
R315	1-247-903-00	CARBON	1M	5%	1/6W
R316	1-247-879-00	CARBON	100K	5%	1/6W
R320	1-247-855-00	CARBON	10K	5%	1/6W
R321	1-247-855-00	CARBON	10K	5%	1/6W
R322	1-249-421-11	CARBON	2.2K	5%	1/6W
R323	1-247-871-00	CARBON	47K	5%	1/6W
R324	1-247-849-00	CARBON	5.6K	5%	1/6W
R325	1-247-847-00	CARBON	4.7K	5%	1/6W
R326	1-247-855-00	CARBON	10K	5%	1/6W
R327	1-249-421-11	CARBON	2.2K	5%	1/6W
R328	1-247-849-00	CARBON	5.6K	5%	1/6W
R329	1-247-871-00	CARBON	47K	5%	1/6W
R351	1-247-879-00	CARBON	100K	5%	1/6W
R352	1-247-855-00	CARBON	10K	5%	1/6W
R353	1-247-852-00	CARBON	7.5K	5%	1/6W
R354	1-247-834-00	CARBON	1.3K	5%	1/6W
R355	1-247-888-00	CARBON	240K	5%	1/6W
R356	1-247-855-00	CARBON	10K	5%	1/6W
R357	1-247-855-00	CARBON	10K	5%	1/6W
R358	1-247-855-00	CARBON	10K	5%	1/6W
R401	1-247-801-00	CARBON	56	5%	1/6W
R402	1-247-845-00	CARBON	3.9K	5%	1/6W
R403	1-247-879-00	CARBON	100K	5%	1/6W
R404	1-247-834-00	CARBON	1.3K	5%	1/6W
R405	1-247-835-00	CARBON	1.5K	5%	1/6W
R406	1-247-897-00	CARBON	560K	5%	1/6W
R407	1-247-851-00	CARBON	6.8K	5%	1/6W
R408	1-247-879-00	CARBON	100K	5%	1/6W
R409	1-247-835-00	CARBON	1.5K	5%	1/6W
R410	1-247-855-00	CARBON	10K	5%	1/6W
R411	1-247-855-00	CARBON	10K	5%	1/6W
R412	1-247-835-00	CARBON	1.5K	5%	1/6W
R415	1-247-903-00	CARBON	1M	5%	1/6W
R416	1-247-879-00	CARBON	100K	5%	1/6W
R417	1-247-871-00	CARBON	47K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R422	1-249-421-11	CARBON	2.2K	5%	1/6W
R423	1-247-871-00	CARBON	47K	5%	1/6W
R424	1-247-849-00	CARBON	5.6K	5%	1/6W
R425	1-247-847-00	CARBON	4.7K	5%	1/6W
R426	1-247-855-00	CARBON	10K	5%	1/6W
R427	1-249-421-11	CARBON	2.2K	5%	1/6W
R428	1-247-849-00	CARBON	5.6K	5%	1/6W
R429	1-247-871-00	CARBON	47K	5%	1/6W
R451	1-247-879-00	CARBON	100K	5%	1/6W
R452	1-247-855-00	CARBON	10K	5%	1/6W
R453	1-247-852-00	CARBON	7.5K	5%	1/6W
R454	1-247-834-00	CARBON	1.3K	5%	1/6W
R455	1-247-888-00	CARBON	240K	5%	1/6W
R456	1-247-855-00	CARBON	10K	5%	1/6W
R501	1-247-852-00	CARBON	7.5K	5%	1/6W
R502	1-247-831-00	CARBON	1K	5%	1/6W
R503	1-247-815-00	CARBON	220	5%	1/6W
R504	1-247-815-00	CARBON	220	5%	1/6W
R505	1-247-873-00	CARBON	56K	5%	1/6W
R551	1-247-852-00	CARBON	7.5K	5%	1/6W
R552	1-247-831-00	CARBON	1K	5%	1/6W
R553	1-247-815-00	CARBON	220	5%	1/6W
R554	1-247-815-00	CARBON	220	5%	1/6W
R555	1-247-873-00	CARBON	56K	5%	1/6W
R560	1-247-098-00	CARBON	43	5%	1/6W
R561	1-247-098-00	CARBON	43	5%	1/6W
R601	1-247-852-00	CARBON	7.5K	5%	1/6W
R602	1-247-831-00	CARBON	1K	5%	1/6W
R603	1-247-815-00	CARBON	220	5%	1/6W
R604	1-247-815-00	CARBON	220	5%	1/6W
R605	1-247-873-00	CARBON	56K	5%	1/6W
R651	1-247-852-00	CARBON	7.5K	5%	1/6W
R652	1-247-831-00	CARBON	1K	5%	1/6W
R653	1-247-815-00	CARBON	220	5%	1/6W
R654	1-247-815-00	CARBON	220	5%	1/6W
R655	1-247-873-00	CARBON	56K	5%	1/6W
R656	1-247-871-00	CARBON	47K	5%	1/6W
R657	1-247-855-00	CARBON	10K	5%	1/6W
R658	1-247-879-00	CARBON	100K	5%	1/6W
R659	1-247-863-00	CARBON	22K	5%	1/6W
R701	1-247-807-00	CARBON	100	5%	1/6W
R702	1-247-807-00	CARBON	100	5%	1/6W
R703	1-247-807-00	CARBON	100	5%	1/6W
R704	1-247-831-00	CARBON	1K	5%	1/6W
R705	1-247-855-00	CARBON	10K	5%	1/6W
R706	1-247-855-00	CARBON	10K	5%	1/6W
R707	1-247-849-00	CARBON	5.6K	5%	1/6W
R708	1-247-831-00	CARBON	1K	5%	1/6W
R709	1-247-831-00	CARBON	1K	5%	1/6W
R710	1-247-831-00	CARBON	1K	5%	1/6W
R711	1-247-871-00	CARBON	47K	5%	1/6W
R712	1-247-871-00	CARBON	47K	5%	1/6W
R713	1-247-865-00	CARBON	27K	5%	1/6W
R714	1-249-421-11	CARBON	2.2K	5%	1/6W
R715	1-247-865-00	CARBON	27K	5%	1/6W
R716	1-247-871-00	CARBON	47K	5%	1/6W
R717	1-247-871-00	CARBON	47K	5%	1/6W
R718	1-247-819-00	CARBON	330	5%	1/6W
R719	1-247-865-00	CARBON	27K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R720	1-247-891-00	CARBON	330K	5%	1/6W
R721	1-247-903-00	CARBON	1M	5%	1/6W
R722	1-247-879-00	CARBON	100K	5%	1/6W
R723	1-247-891-00	CARBON	330K	5%	1/6W
R724	1-247-839-00	CARBON	2.2K	5%	1/6W
R725	1-247-864-00	CARBON	24K	5%	1/6W
R726	1-247-864-00	CARBON	24K	5%	1/6W
R727	1-247-815-00	CARBON	220	5%	1/6W
R728	1-247-871-00	CARBON	47K	5%	1/6W
R729	1-247-855-00	CARBON	10K	5%	1/6W
R730	1-247-855-00	CARBON	10K	5%	1/6W
R731	1-247-855-00	CARBON	10K	5%	1/6W
R732	1-247-879-00	CARBON	100K	5%	1/6W
R733	1-249-429-11	CARBON	10K	5%	1/6W
R734	1-247-879-00	CARBON	100K	5%	1/6W
R735	1-249-429-11	CARBON	10K	5%	1/6W
R801	1-216-178-00	METAL CHIP	150	5%	1/8W
R802	1-216-174-00	METAL CHIP	100	5%	1/8W
R803	1-216-174-00	METAL CHIP	100	5%	1/8W
R804	1-216-178-00	METAL CHIP	150	5%	1/8W
R805	1-216-178-00	METAL CHIP	150	5%	1/8W
R806	1-216-178-00	METAL CHIP	150	5%	1/8W
R807	1-216-178-00	METAL CHIP	150	5%	1/8W
R901	1-247-871-00	CARBON	47K	5%	1/6W
R902	1-247-871-00	CARBON	47K	5%	1/6W
R903	1-247-871-00	CARBON	47K	5%	1/6W
R904	1-247-847-00	CARBON	4.7K	5%	1/6W
RV101	1-228-891-00	RES, ADJ, METAL GLAZE 10K			
RV102	1-226-711-00	RES, ADJ, SOLID 22K			
RV103	1-226-715-00	RES, ADJ, SOLID 470K			
RV104	1-226-710-00	RES, ADJ, SOLID 10K			
RV301	1-230-497-11	RES, ADJ, CARBON 22K			
RV401	1-230-497-11	RES, ADJ, CARBON 22K			
RV901	1-230-805-11	RES, VAR, CARBON 50K (BASS)			
RV902	1-230-805-11	RES, VAR, CARBON 50K (TREBLE)			
RV903	1-230-806-11	RES, VAR, CARBON 20KX4/50K/10K (VOL/PULL BAL/FADER)			
S701	1-570-248-11	SWITCH, SLIDE			
S702	1-570-249-11	SWITCH, LEAF			
S703	1-570-250-11	SWITCH, LEAF			
S801	1-554-813-21	SWITCH, KEY BOARD (PLAY/DIR)			
S802	1-554-813-21	SWITCH, KEY BOARD (FF)			
S803	1-554-813-21	SWITCH, KEY BOARD (REW)			
S804	1-554-813-21	SWITCH, KEY BOARD (EJECT)			
S805	1-554-980-11	SWITCH, KEY BOARD (1)			
S806	1-554-980-11	SWITCH, KEY BOARD (2)			
S807	1-554-980-11	SWITCH, KEY BOARD (3)			
S808	1-554-980-11	SWITCH, KEY BOARD (4)			
S809	1-554-980-11	SWITCH, KEY BOARD (5)			
S810	1-554-980-11	SWITCH, KEY BOARD (6)			
S811	1-554-813-21	SWITCH, KEY BOARD (DOLBY/MONO)			
S812	1-554-813-21	SWITCH, KEY BOARD (METAL/LOCAL)			
S813	1-554-813-21	SWITCH, KEY BOARD (MEMORY/TIME SET)			
S814	1-554-813-21	SWITCH, KEY BOARD (MANUAL +/M)			
S815	1-554-813-21	SWITCH, KEY BOARD (MANUAL -/H)			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
S816	1-554-813-21	SWITCH, KEY BOARD (DISPLAY)
S817	1-554-980-11	SWITCH, KEY BOARD (LOUDNESS)
S818	1-554-980-11	SWITCH, KEY BOARD (BAND)
S819	1-554-980-11	SWITCH, KEY BOARD (SEEK)
S901	1-230-806-11	RES, VAR, CARBON 20KX4/50K/10K (PUSH RADIO)
SPC501*	1-557-945-11	CORD, SPEAKER (GRY/WHT)
SPC551*	1-557-945-31	CORD, SPEAKER (BLU/WHT)
SPC601*	1-557-945-21	CORD, SPEAKER (GRY/RED)
SPC651*	1-557-945-41	CORD, SPEAKER (BLU/RED)
T1	1-404-463-00	TRANSFORMER, DISCRIMINATOR
T2	1-404-468-00	TRANSFORMER, DISCRIMINATOR
X201	1-567-116-00	VIBRATOR, CRYSTAL

ACCESSORY & PACKING MATERIAL

Part No.	Description
1-532-360-XX	FUSE (1A)
1-532-508-00	FUSE, GLASS TUBE (8A)
3-320-642-01	BAG, PROTECTION (D)
3-302-126-00	SCREW, TAPPING (DIA. 5X20)
3-310-655-01	SUPPORT (ND), FITTING
3-323-206-01	STOPPER (LARGE)
3-323-208-01	BUSHING, RUBBER
3-323-209-01	BOLT (4-5), STUD
3-323-210-01	ADJUSTOR, STUD BOLT
3-323-211-01	HOLDER
3-323-214-01	BRACKET (LEFT), DRAWER
3-323-215-01	BRACKET (RIGHT), DRAWER
3-323-217-01	HOLDER, BUSHING
3-323-219-01	FRAME, FITTING
*3-323-284-01	MANUAL, INSTRUCTION, BRACKET
X-3329-541-1	PROTECTOR ASSY
3-324-353-01	CARTON, ACCESSORY
3-332-105-01	(US).....INDIVIDUAL CARTON
3-325-768-01	BAG (A), PROTECTION
3-332-106-01	(Canadian,AEP,E)..INDIVIDUAL CARTON
3-701-613-00	BAG, POLYETHYLENE
3-701-616-00	BAG, POLYETHYLENE
3-701-619-00	BAG, POLYETHYLENE, STANDARD
3-701-626-00	BAG, POLYETHYLENE
3-701-628-00	BAG, POLYETHYLENE
3-765-080-21	MANUAL, INSTRUCTION
3-765-080-31	(Canadian)...MANUAL, INSTRUCTION
3-765-080-11	(AEP, E).....MANUAL, INSTRUCTION
3-325-766-01	CUSHION (I)
*3-764-366-21	INSTRUCTION
3-764-492-01	INSTRUCTION (REMOTE)
7-682-261-09	SCREW +K 4X8
X-3320-515-1	BRACKET (RIGHT) ASSY
X-3320-516-1	BRACKET (LEFT) ASSY
X-3320-524-1	SCREW ASSY (A)
3-326-022-01	CUSHION, REMOTE
X-3320-528-1	BRACKET ASSY

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